RAVI SHEKHAR TIWARI

Developer \sim Researcher	L +91-9431006763 () happyman11
	💡 Telangana, India 🛛 🛅 ravishekhartiwari
SUMMARY	SKILLS
With a aim to innovate the technology by research and enhance the end-user experience by developing state- of-the-art software, I have been associated with Industry as well as Academia for different projects. Currently	Languages: HTML, SQL, Python, JavaScript, HTML, C++, C, R, Julia, Php, Shell, Solidity, Ajax, Rust.
looking for a role in Artificial Intelligence and Blockchain in Industry.	Technologies: APIs, Stack Development, Artificial Intel- ligence, Deployment, Bussiness Intelli- gence, Programming Languages, Inter- net of Things, ETL, Scrapping Automation & Scheduler, Code Management, AWS, BlockChain.
EDUCATION	
08/2023 - Present M.Tech in Data Science & Artificial Intellig Mahindra University, Telangana, Hyderabad	
05/2015 - 05/2019 B.Tech in Information Technology Percentage: 81.76 %, SRM University, Chen	UnderGraduation nai, Tamil Nadu, India
03/2013 - 03/2015 CBSE Board Percentage: 80.08 %, International School,	High School Education Patna, Bihar
04/2012 - 04/2013 ICSE Board Percentage: 78.01 %, International School, I	Secondary School Education Patna, Bihar
 Counter Terrorism which can be deployed As a Intern I am developing Domain Adap Insurgency and Counter Terrorism which c environment conditions. 	Indian Institute of Technology, Indore Acoustic Early Warning System for Counter Insurgency and on Edge device for ease of use Itation model for Acoustic Early Warning System for Counter can be deployed on Edge device for ease of use in different . / Transformers / Pytorch / AI / ML
 As a Technical Content Writer, I have create Scaler Topics under the title TensorFlow/K 	Scaler Academy, Karnataka modules of the course related to the R programming ed more than 20+ modules of the course which is published on eras w / Transformers / R / AI / ML
 Contributed to making the autonomous pi cooling pipe. Developed AI-based application based on the set of the set o	Indian Institute of Technology - Patna, Bihar ficial Intelligence Concept into PPGCL, Coal Power Plant. pe inspection car to inspect the 17 kms long and 2 mt. wide the Proof of Concept to calibrate the various parameters in the d increase the productivity of the power plant. cs / AI / ML
Dataset repository.	Launchpad.ai nentation of Satellite Images obtained from the Planet Labs oped, we developed an application made up of microservices n the uploaded satellite image.

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2/2022 - 11/2022 Al Engineer

- Developed reusable AI-related Microservices and API.
- Automated the AI pipelines and workflow with Airflow and schedulers.
- Developed chatbot from scratch to enhance the customer user experience.
- Developed AI pipeline and model for identifying unsuitable images and text.
- Developed a Dashboard for the User to have insight into the Data Analytically.
- Developed AI-automated IVR and Whatsapp messages using chatbot and Twillio.
- Developed a Recommendation System to increase sales based on the user profile.
- Pipeline to training models related to NLP, Computer Vision, Sound Signals, and Recommendation.
- Developed a Dashboard using AWS where the Mother server can monitor the resource utilization of the children's server and take necessary actions as per the situation. Keras / Tensorflow / R / AI / ML / Data Pipeline / AWS / Data Analytics

6/2020 - 2/2022 AI & ML Consultant

Data Driven Investor

- Educating team members and stakeholders on AI/ML concepts, tools, and best practices
- Analyzing current processes and systems to identify areas where AI/ML can be beneficial.
- Deploying the model into the production environment and integrating it with existing systems.
- Ensured compliance with legal and regulatory requirements related to data privacy and AI usage.
- Ensured that AI/ML solutions are developed and deployed ethically, avoiding biases and ensuring fairness
- · Developing and monitoring automated pipelines for continuous integration and deployment (CI/CD) of AI/ML models.

Cybersecurity / AI / ML / DEVSECOPS / CICD / RPA

6/2019 - 6/2020 Al Engineer & Penetration Tester

- CICD pipeline implementation using Jenkins.
- Workflow automation using UIPATH- RPA, and Selenium
- Given training to freshers based on AI and its implementation.
- Penetration testing of applications and websites using Burp suite and Metasploit.
- Application vulnerability exposure using SSC, DAST (Web inspect), SAST (Fortify).
- Integrating AI modules in the internal organization software to enhance the employee experience.
- Implemented DevSecOps (a compliment to agile methodology) in my team which was located around 7 different places in India.

Cybersecurity / AI / ML / Penetration Testing / DEVSECOPS / CICD / RPA

RESEARCH EXPERIENCE - JOURNAL, CONFERENCE & BOOKS -

12/2024 - 4/2025 **Reviewer** IJCNN-2025, International Neural Network Society Conference, Rome, Italy As a reviewer, I evaluated the proposed methodology of the research paper related to Deep Learning and Machine Learning in Natural Language Processing. AI / ML / NLP

12/2024 - 4/2025 **Reviewer**

 As a reviewer, I evaluated the proposed methodology of the paper related to Deep Learning and Machine Learning. AI / ML

12/2024 - 4/2025 **Reviewer**

IJCNN-2024, International Neural Network Society Conference, Yokohoma, Japan · As a reviewer, I evaluated the proposed methodology of the research paper related to Deep Learning and Machine Learning. AI / ML

3/2023 - 4/2023 **Reviewer**

· As a reviewer, I evaluated the proposed methodology of the paper related to Deep Learning and Machine Learning. AI / ML

10/2023 - 12/2023 Editor

• As an Editor of the Book Titled Explainable AI (XAI) for Sustainable Development: Trend and Application. XAI / AI / ML

1/2023 - 31/2023 Managing Editor

 As a Managing Editor of Book Titled Privacy Preservation and Secured Data Storage in Cloud Computing: Challenges and Opportunities.

Cloud Computing / Data Security / Blockchain / Federated Learning

Chadura Tech, Karnataka, India

Tata Consultancy Services, Maharashtra India

ICECCME-2025, IEEE Conference, Tanzania

CRC Press Taylor & Francis Group

ICECCME-2024, IEEE Conference, Spain

IOP Publishing

	Book Series EditorIIP Proceedings, Karnataka, IndiaAs a Managing Editor of Book Titled Privacy Preservation and Secured Data Storage in Cloud Computing: Challenges and Opportunities.Edited book series titled IIP_V2_2022_BS_09_04 Futuristic Trends in Artificial Intelligence.
3/2022 - Present •	IoT / AI / ML Frontiers in Physiology and Neurobiotics, Journal Journal Reviewer Frontiers in Physiology and Neurobiotics, Journal As a professional reviewer, I reviewed the research paper submitted to this esteemed Journal in fields such as Gait, AI, ML, XAI, Cloud Computing, Distributive Computing, and Data Science. Gait / AI / ML / Robotics
8/2022 - Present •	Journal ReviewerInternational Journal of Research and Scientific Innovation, (IJRSI)As a professional reviewer, I reviewed the research paper submitted to this esteemed Journal in fields such as Gait, AI, ML, XAI, Cloud Computing, Distributive Computing, and Data Science.Gait / AI / ML / Robotics
3/2020 - Present •	Journal ReviewerInstitute of Scholars, Karnataka, IndiaAs a Journal reviewer in the International Journal of Computer Science and Information Technology (Scopus Indexed).Gait / AI / ML / Robotics
10/2020	Advisory CommitteeIFERP: Virtual Conference on Industry 4.0, IndiaAs a member in the advisory committee in IFERP: Virtual Conference on Industry 4.0Gait / AI / ML / Robotics
11/2020	Advisory CommitteeIEEE: International Conference for Innovation and Technology (INOCON), IndiaAs a professional reviewer in InSc, I was one of the reviewers in INOCON 2020, where I reviewed the research paper submitted in this esteemed conference.Gait / AI / ML / Robotics
FUNDING	
ANRF/SERB ITS	International Travel Grant Support (ITS) for Young researchersYear: 2024Recieved Prestigious ANRF (Anusandhan National Research Foundation) formerly known as SERB, International Travel Grant Support (ITS) for Young researchers. To present my work at 31 st International Conference on Neural Information Processing (ICONIP) - an annual conference of the Asia Pacific Neural Network Society (APNNS)
Mahindra Universit ITS	y International Travel Grant Support (ITS) for Master's Student Research Paper Presentation Year: 2024 Recieved Mahindra University Master's student International Travel Grant Support (ITS) to present my work at 31 ^s t International Conference on Neural Information Processing (ICONIP) - an annual conference of the Asia Pacific Neural Network Society (APNNS)
Mahindra Universit Thesis Fund	y Recieved Master's Student Thesis Fund Year: 2024 Recieved Mahindra University Master's Student Thesis Fund to purchase the required equiptment and carry out Data Collection and Experiements.
AWARDS & RECO	
Achiever Award	Young Achiever's Award, InSc Year: 2020 Won the Young Achiever's Award in the year 2020, by InSc. This award had been awarded for publishing a patent on Video Captioning using Encoder and Encoder module Link
Researcher's Award	d Youngest Researcher's Award, Green Thinkerz Year: 2020 Won the Youngest Researcher's Award in the year 2020, by Green ThinkerZ. This award had been awarded for my contribution to the field of Science and Technology.
Scientist Award	Young Scientist Award, I2OR Year: 2020 Won the Young Scientist Award, I2OR in the year-2020, by Green ThinkerZ. This award had been awarded for my contribution to the field of Science and Technology.
Education	Asian Education Award, AEA Conference 2021 Year:2021 Won the Aisan Education Award for the contribution to the development of students in Technology and Education.
Science Exhibition	SRM Institute of Science & Technology Year:2015 Won 1 st Prize in the Exhibition of Physics and Nanotechnology in SRM IST, in the year 2015, for the elec- tromagnetic gate.

Education, Udacity Scholarship	AWS ML NanodegreeYear:2022Won the Udacity Scholarship for AWS ML Nanodegree Course.
Education	International Science OlympiadYear:2003Secured 2 nd Rank in State Level in International Science Olympiad (ISO).
CONFERENCE PU	IBLICATIONS
12 th BDA-2024	GCN-MLP Framework for EEG-Based Vigilance Estimation for Variable Data Length Accepted Paper in 12 th Big Data and Artificial Intelligence (BDA) -2024, University of Hyderabad, Hyder- abad, Telangana, India on GCN-MLP Framework for EEG-Based Vigilance Estimation for Variable Data Length funded by Mahindra University
31 st ICONIP-2024	Demystifying Enhancement & Gradability of Images: Channel-Based Image Enhancement and K-shot Quality Measurement Assessment Model Presented Paper in 31 st ICONIP-2024, Auckland, New Zealand on Demystifying Enhancement & Gradabil- ity of Images: Channel-Based Image Enhancement and K-shot Quality Measurement Assessment Model funded by ANRF (Formerly known as SERB) & Mahindra University
5 th I4C-2024 IEEE, Xplore	A Smart Locking System Based on Multimodal Biometrics Authentication Link Tiwari, R. S., Das, T. K., Durgashri, G., & Mohapatro, A. (2024, October). A Smart Locking System Based on Multimodal Biometrics Authentication. In 2024 5th International Conference on Circuits, Control, Commu- nication and Computing (I4C) (pp. 571-576). IEEE.
5 th RDCAPE-2023 Springer, LNEE	A Comparative Analysis of Short-Term Load Forecasting Techniques: Conventional Deep Learning Models vs. Proposed LSTM with Attention Layers Link Accepted Paper in 5 th International Conference on Recent Developments in Control, Automation & Power Engineering (RDCAPE-2023), Amity University, Noida, UttarPradesh, India on A Comparative Analysis of Short-Term Load Forecasting Techniques: Conventional Deep Learning Models vs. Proposed LSTM with Attention Layers
ICAICTA 2021 Springer, LNCV	CNN- Gait Based Walk Acknowledgement Biometric Model Supraja P, Ravi Shekhar Tiwari "CNN- Gait Based Walk Acknowledgement Biometric Model" in Interna- tional Conference on Advancing Intelligent Computing Theory and Applications (ICAICTA 2021) on 22nd & 23rd Dec 2021.
ISCMM 2021 Springer, LNCV	Channel-Based Similarity Learning Using 2D Channel-Based Conv. Neural Network Link Tiwari, R. S. (2022, July). Channel-Based Similarity Learning Using 2D Channel-Based Convolutional Neu- ral Network. In Artificial Intelligence on Medical Data: Proceedings of International Symposium, ISCMM 2021 (pp. 331-348). Singapore: Springer Nature Singapore.
PATENTS	
Patent Indian	Video Captioning Using Encoder and Decoder ModuleLinkA System For Generating Captions For Video Frames And A Method Thereof Application No.201941049570 A, The Patent Office Journal No. 51/2019 Dated 20/12/2019, pg.no 61314, Patent No:

Patent IndianHuman Identification Using Gait Analysis and 3D Convolutional NetworkLinkAn Apparatus and Method for Recognizing a Person using Gait Parameters Application No. 201941053621A, The Patent Office Journal No. 1/2020 Dated 03/1/2020, pg.no 208

BOOK AND BOOK CHAPTERS PUBLICATIONS

484183 Date of Grant : 18/12/23

Book Chapter Elsevier	Hate Speech Detection Using LSTM in Computational Intelligence Methods for Sentiment Analysis in Natural Language Processing Tiwari, R. S. (2024). Hate speech detection using LSTM and explanation by LIME (local interpretable model-agnostic explanations). In Computational Intelligence Methods for Sentiment Analysis in Natural Language Processing Applications (pp. 93-110). Morgan Kaufmann.
Book Taylor & Francis Grp.	Libraries for Explainable Artificial Intelligence (EXAI): Python in Explainable AI (XAI) for Sustainable DevelopmentTrends and Applications Lakshmi, D., Tiwari, R. S., Dhanaraj, R. K., & Kadry, S. (Eds.). (2024). Explainable AI (XAI) for Sustainable Development: Trends and Applications. CRC Press.
Edited Book IGI	Privacy Preservation and Secured Data Storage in Cloud Computing Edited Book named Privacy Preservation and Secured Data Storage in Cloud Computing published in IGI Global Publisher. DOI: 10.4018/979-8-3693-0593-5, ISBN: 9798369305935

Edited Book IIP	Futuristic Trends in IOT Edited Book named Futuristic Trends in IOT published in Iterative International Publishers (IIP), Selfypage Developers Pvt Ltd.
Book Chapter Taylor & Francis Grp.	Explainable AI (EXAI) for Sustainable Development: Trends and ApplicationsBook LinkVictoria, A. H., Tiwari, R. S., & Ghulam, A. K. (2024). 13 Libraries for Explainable. Explainable AI (XAI) forSustainable Development: Trends and Applications, 211.
Edited Book IIP	Futuristic Trends in Artificial IntelligenceBook LinkEdited Book named Futuristic Trends in Artificial Intelligence published in Iterative International Publishers(IIP), Selfypage Developers Pvt Ltd with ISBN: 978-93-95632-81-2
Book Chapter Scrivener Pub.	Model Evaluation in Fundamentals and Methods of Machine and Deep Learning: Algorithms, Tools and Applications. Book Link Tiwari, R. S. (2022). Model Evaluation. Fundamentals and Methods of Machine and Deep Learning: Algo- rithms, Tools and Applications, 33-100.

JOURNAL PUBLICATIONS

Springer Telecom. Systems SCIE	A lightweight optimized intrusion detection system using machine learning for edge-based IIoT se- curity Research Paper Link We have developed a unique lightweight optimized intrusion detection system based on Feature selec- tion by Evolutionary Algorithm which can select most prominetnt features from the network traffic and if irregularities and found in the network packets it will stop the packets in the middle in order to prevent any attack on the system
MDPI, Diagnostic SCIE	Cloud-Based Quad Deep Ensemble Framework for the Detection of COVID-19 Omicron and Delta Variants Research Paper Link We have developed a unique ensemble model for detecting COVID-19 Omicron and Delta variants from lung CT-scan images. The ensemble model combines the Capsule Network (CapsNet) with pre-trained architectures including VGG-16, DenseNet-121, and Inception-v3. This approach aims to enhance reliabil- ity and robustness in diagnosing the variants. DOI: 10.3390/diagnostics13223419
IEEE, TIA SCIE	Comparative Study on Forecasting of Schedule Generation in Delhi Region for the Resilient Power Grid Using Machine Learning In this proposed work, the focus is on Short-Term Load Forecasting (STLF) in the Delhi metropolis for the upcoming twelve months of 2020. The transformation of the conventional electrical grid into a more adaptable and interactive system due to the increasing use of Renewable Energy Resources (RES) has made accurate load prediction crucial for smart grid operation, including planning, scheduling, manage- ment, and electricity trading. DOI: 10.1109/TIA.2023.3316646
Springer, Evolving System SCIE	3D convolution neural network-based person identification using gait cycles Research Paper Link Human identification plays a prominent role in terms of security. In modern times security is becoming the key term for an individual or a country, especially for countries that are facing internal or external threats. Gait analysis is interpreted as the systematic study of the locomotive in humans.The steps involve object detection, background subtraction, silhouette extraction, skeletonization, and training 3D Convo- lution Neural Network (3D-CNN) on these gait features. DOI:10.1007/s12530-021-09397-y
Jrnl. of Physics & Nanotech Scopus	Enhanced Human Gait Prediction ^{n.} In this we have used 2D CNN to recognize the human by their gait features by analyzing their walking pattern by considering their silhouettes.
PROJECTS —	
Plagiarism Report	As Part of Foundation of NLP Teaching Assistantship GitHub Repository Developed software to calculate Student-to-Student Similarity Scores and detect AI-generated content in assignments submitted during coursework.
Slack & Email Notification Center	As Part of Foundation of NLP Teaching Assistantship GitHub Repository Developed software to Pre-Schedule the Slack Notification Messages as well as Emails. So that we can schedule the notification and Slack Messages for different event in the Foundation of NLP coursework.
Vlanc Website Domain Migration	As Part of Foundation of NLP Teaching Assistantship Vlanc Website I maintained the website of VLanc Lab and migrated the website to custom domain instead of Github free Domain.

MICA - 2024 As Part of Advanced Communications and Machine Intelligence Conference - 2024 website As a part of MICA - 2024, I automated the email process of all the participants as well as the audience in order to seamless flow of information. Helped in designing Certificates for Reviewer/Speakers/Key-Note Speaker/Participants, Registration Reciepts, Posters and Invitation Cards.

I, Ravi Shekhar Tiwari, hereby declare and attest that the information provided in this resume is true, accurate, and complete to the best of my knowledge.

Name: Ravi Shekhar Tiwari

Signature: RS Tiwari