

Shivam Tawari

Curriculum Vitae

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Personal Details

Address Nagpur (MH), India
Date of Birth 02nd November 2000
Place of Birth Malkapur
Nationality Indian

Work Experience

- Apr 2024 – Present **Research Associate, Indian School of Business (ISB), Hyderabad, India**
- Co-authored the research paper, "*Threat management or accountability orientation? A study of CEO political ideology and product recalls*," accepted for presentation at the 2025 Strategic Management Society (SMS) Annual Conference.
 - Developed a sophisticated speaker diarization pipeline for a four-year audio dataset from "Mad Money", integrating OpenAI's Whisper with NeMo models for Voice Activity Detection and speaker embeddings.
 - Implemented BERTopic, a transformer-based topic modeling technique, on a large corpus of news articles (100's Gb) from Factiva to identify and track key business and financial topics.
 - Designed a cost-effective pipeline using Google's Gemini and advanced prompt engineering to classify executive career trajectories (e.g., promotion, demotion) from ambiguous job titles in a large-scale ExecuComp dataset.
 - Developed custom scrapers to collect and unify historical data from the Oscars and Golden Globes, creating a comprehensive database for longitudinal trend analysis.
 - Performed foundational data engineering, implementing Fuzzy Matching algorithms to achieve 95% accuracy in data reconciliation and using Stata for subsequent econometric and statistical analysis.
- Nov 2023 – Jun 2024 **Analyst, Capgemini, Bengaluru, India**
- Designed a deep learning system for a **public safety authority in Germany** to detect smoke and fire in football stadiums.
 - Utilized a state-of-the-art YOLO V8, customized for the purpose of detecting smoke of flares, achieving a validation accuracy of 81%.
 - Deployed the model on Django web application using Microsoft Azure Cloud.
- Jul 2023 – Oct 2023 **Professional Orientation & Job Search**
- Focused on skill development in advanced machine learning and preparing for opportunities in the data science sector.*
- Jun 2022 – Sep 2022 **Research Intern, Center of Excellence in AI and ML GHRCE, Nagpur, India**
- Evaluated linear and non-linear Machine Learning algorithms for Time Series Forecasting trained on 2500 data points.
 - Transformed data to stationary by Time Differencing features to remove Trend and Seasonality.
 - Concluded that key factor was transformation of features adding technical indicators and 1-,2- and 3- day lags, which made project viable.
 - Recommended a robust and efficient pipeline for predication.

Education

Jul 2019 – Jun 2023 **Bachelor of Technology in Artificial Intelligence, GH Rasoni College of Engineering, Nagpur, India, CGPA: 8.82 / 10.0**

Research Publications

- 2025 *Threat management or accountability orientation? A study of CEO political ideology and product recalls* accepted for presentation at the Strategic Management Society (SMS) 45th Annual Conference.
- Manuscript *Fusing information from multiple sources for Multimodal Emotion Recognition.*
- 2023 *Countering Dis-information by Multimodal Entailment via Joint Embedding* presented at the International Conference on Intelligent and Innovative Technologies in Computing, Electrical and Electronics (IITCEE).
- 2022 *Robust Time Series Forecasting via Time Differencing and Stacking* presented at the International Conference on Smart Generation Computing, Communication and Networking (IEEE SMART GENCON).

Projects

- 2022 **Interpreter.ai**, *Deep learning-based translation web app*
Trained on FLORES-200, achieving 91.4% validation accuracy for 204 languages.
- 2022 **HateRaid**, *Multimodal hate speech detection model*
Used a Multimodal Bi-transformer (MMBT) model on the Meta Hateful Memes Dataset, achieving 92.6% validation accuracy.
- 2021 **Covid Wizard**, *AI-based web application for policy makers*
Monitored and tracked real-time policy implications and predicted Covid hotspots.

Honors & Awards

- 2022 Winner, Smart India Hackathon
- 2021 Winner, Accenture Applied Intelligence Hackathon
- 2021 Second Runner Up, AI for Healthcare Hackathon

Skills & Activities

- Languages English (Professional working proficiency), German (Beginner)
- Technologies Hugging Face, GenAI, Large Language Models (LLMs), Pandas, Numpy, Scikit-learn, Matplotlib, Plotly, Flask, Django, GitHub
- Developer Tools VS Code, PyCharm, Google Cloud Platform, Microsoft Azure, AWS EC2
- Activities IEEE Member, Volunteer of E-Cell GHRCE