

RITIK RAWAT

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EDUCATION

Rutgers, The State University of New Jersey
Master of Science in Computer Science

Aug 2023 - May 2025
New Brunswick, NJ

Indian Institute of Information Technology, Vadodara
Bachelor of Technology in Computer Science

Aug 2018 - May 2022
Gandhinagar, India

EXPERIENCE

Data Scientist

Cognam Technologies

Aug 2022 - Aug 2023
New Delhi, India

- Led the data science team to create an identity resolution module using **XGBoost and Random Forest** models to segregate transactional data across multiple selling companies, **improving compliance** with US remittance laws by **43%**
- Revamped the data integration process for identity resolution by optimizing the comparison algorithm and leveraging **Redis**, achieving a **90% reduction** in time required to add new data to existing customer clusters, enhancing operational efficiency
- Updated the facial recognition login system by implementing a **CNN-based deep neural network**, enhancing **accuracy by 25%** and **decreasing processing time by 15%**

Data Analyst

Increff

Jan 2022 - Jun 2022
Bengaluru, India

- Created custom inventory and warehouse management reports for **100+ retail clients** using **JasperReports** by streamlining complex data requests into **optimized SQL queries**, addressing unique operational needs in **finance, inventory management and supply chain management**
- Enhanced reporting efficiency by refining **SQL queries** using **indexing and caching**, reducing execution time by **30%**

Research Intern

Maulana Azad National Institute of Technology

May 2021 - Jul 2021
Bhopal, India

- Conducted research under the guidance of Dr Vijay B Semwal, Assistant Professor, MANIT, focusing on **human gait classification** using deep learning techniques
- Developed **CRNN, CNN + LSTM and CNN-LSTM** based models for human gait classification, achieving accuracy rates of **88%, 94%, and 96%**

PROJECTS

Reducing Gender Bias in Word Embeddings

Sep 2024

- Designed algorithms based on **Counterfactual Data Augmentation and Adversarial Training** to mitigate gender bias in **GloVe** word embeddings, achieving a **68%** reduction in gender-based discrepancy in the results of a hiring-related downstream task

Word Sense Disambiguation in Biomedical Text

Dec 2023

- Researched and implemented a **Markov-clustering** based approach for Word Sense Disambiguation in biomedical text, leveraging multi-word expressions for disambiguation, achieving **85% accuracy** in resolving ambiguities within a benchmark dataset

Image Super-Resolution

Sep 2021

- Implemented Generative Adversarial Networks (**GANs**) and **CNN-based Self-Supervised Learning** to enhance image resolution by 400%, resulting in clearer, high-quality images and achieving a **75%** reduction in storage space

Stock Price Prediction Using Sentiment Analysis

Nov 2020

- Developed a **sentiment analysis and time series forecasting model** using **LSTM and GRU** to analyze tweets and predict stock price fluctuations with approximately **90% accuracy**, effectively combining market sentiment with temporal data trends

SKILLS

Programming Languages : Python, R, Java, SQL

Data Science : Statistical Modeling, Machine Learning, Deep Learning, Time Series Forecasting, Natural Language Processing, Generative AI, Computer Vision, TensorFlow, PyTorch, Keras, Data Analytics, Statistics, Regression, Data Visualisation, Predictive Models

Tools and Frameworks : Linux, Amazon Web Services, Database Management, Cloud Computing, Tableau, JasperReports, Git, Databricks, PySpark, Microsoft Office, Redis, Pandas, NumPy, Matplotlib, Seaborn, Version Control