

# RAVISANKAR CHENGANNAGARI

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## EDUCATION

**MERCY UNIVERSITY**, New York, US

*Master of Science in Computer Science (Specialization: Data Science)*

**DECEMBER 2025**

**LOVELY PROFESSIONAL UNIVERSITY**, Punjab, India

*Bachelor of Technology in Computer Science and Engineering (Specialization: Machine Learning)*

**AUGUST 2022**

## SKILLS

**Machine Learning & AI:** LLMs, Transformers, Hugging Face, TensorFlow, Scikit-learn, XGBoost, LightGBM, NLP, CNNs, RNNs, Predictive Modeling, Feature Engineering, Hyperparameter Tuning

**MLOps & Deployment:** Docker, MLFlow, Flask, FastAPI, Streamlit

**Cloud & Big Data:** AWS (EC2/S3/SageMaker), Hadoop, Spark, SQL, ETL Pipelines

**Data Analytics:** Statistics, Probability, Time Series Forecasting, Bayesian Inference, PCA, Hypothesis Testing

**Programming:** Python, Java, JavaScript

**Visualization:** Matplotlib, Seaborn, Plotly, Folium

**Other Skills:** Data Structures, HTML, CSS, Git, GitHub

## EXPERIENCE

**COGNIZANT TECHNOLOGY SOLUTIONS:** Programmer Analyst | Bengaluru, Karnataka, India

**JUN 2022 – NOV 2023**

*(Converted from Intern to Full-time based on performance)*

- Architected end-to-end **ML pipelines** and deployed containerized models using **Docker** and **Flask**, significantly improving production scalability and reliability.
- Engineered predictive models (**XGBoost**, **TensorFlow**) for classification and forecasting, achieving a **20-30% accuracy boost** through rigorous hyperparameter tuning.
- Automated large-scale **ETL workflows**, reducing manual data intervention by **40%** and enabling real-time model retraining cycles.

**COGNIZANT TECHNOLOGY SOLUTIONS:** Intern | Remote

**JAN 2022 – JUN 2022**

- Developed proof-of-concept ML models, including **NLP-based** sentiment analysis and recommendation prototypes, to validate predictive capabilities.
- Conducted **Exploratory Data Analysis (EDA)** and advanced feature engineering (imputation, scaling) using **Pandas** and **Seaborn** to optimize model accuracy.

**MERCY UNIVERSITY:** Student Teaching Assistant | Dobbs Ferry, New York, United States

**FEB 2025 – DEC 2025**

- Mentored students in **Python**, **Java**, and **Data Structures** (OOP) while providing 1:1 debugging support for complex algorithms and grading assignments to improve code efficiency.

## ACADEMIC & INDEPENDENT ML PROJECTS

**PERSONALIZED NEWS RECOMMENDATION SYSTEM** [[View GitHub Repo](#)]

**DEC 2025**

- Architected a **Hybrid Recommendation Engine** on the MIND dataset, unifying **SVD** and **Word2Vec** to mitigate the "Cold Start" problem for **156k+** user impressions.
- Developed a **Neural Transformer (NRMS)** with Multi-Head Attention, achieving **0.65 AUC** (90% of SOTA) and outperforming 8+ benchmarks (RNN, LSTM) in computational efficiency.

**EMOTION CLASSIFICATION IN TWITTER MESSAGES** [[View GitHub Repo](#)]

**OCT 2025**

- Fine-tuned a **DistilBERT Transformer** achieving **94.1% accuracy** on **416k tweets**, outperforming 7+ benchmarks (**Bi-LSTM**, **SVC**) and boosting recall for imbalanced classes.
- Deployed the model as a scalable **Flask web application** for real-time inference, optimizing training pipelines with **TF-IDF** vectorization and custom tokenization.

**CREDIT APPROVAL PREDICTION** [[View GitHub Repo](#)]

**MAY 2025**

- Architected a credit risk scoring model using **LightGBM** on **1.4M+** records, achieving **0.85 ROC-AUC** and automating manual loan approval processes.
- Solved severe class imbalance (90%) using **SMOTE** and engineered predictive features (Log-Transform) to improve recall and boost model stability by **~15%**.

## CERTIFICATIONS

Artificial Intelligence Engineer ([Simplilearn](#)), Machine Learning ([Simplilearn](#)), Deep Learning with TensorFlow ([IBM](#)), Data Science with Python ([Simplilearn](#)), Competitive Programming ([Cipher Schools](#)), Web Development Bootcamp ([Udemy](#))