

RAVISANKAR CHENGANNAGARI

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EDUCATION

Mercy University, New York, US

Master of Science in Computer Science (Specialization: Machine Learning)

December 2025

Lovely Professional University, Punjab, India

Bachelor of Technology in Computer Science and Engineering (Specialization: Data Science)

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 – June 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](#))