

PRANEETHA GOLI

AI/ML Engineer | Data Scientist | Data Analyst | NLP & GenAI Specialist
India | Prane220502@gmail.com | +91 79814 90839 | [linkedin](#) | [github](#)
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PROFESSIONAL SUMMARY

AI/ML Engineer and Data Science professional with expertise in Machine Learning, Deep Learning, NLP, LLMs, Generative AI, and Data Analytics. Skilled in Python, SQL, TensorFlow, Scikit-learn, data preprocessing, model optimization, and deploying ML systems using Flask and Streamlit. Proven ability to build predictive models, automate workflows, and deliver data-driven insights with measurable business impact.

WORK EXPERIENCE

Data Science Intern — Naresh IT, Hyderabad

2023 Aug–March

- Developed a Machine Learning-based churn prediction model (Random Forest) achieving 90% precision.
- Performed EDA, Data Cleaning, Feature Engineering to optimize model performance.
- Built and deployed a Flask API enabling real-time predictive analytics for customer churn.
- Improved recall by 18% through optimized hyperparameters and balanced training datasets.

Data Analyst & Machine Learning Intern — Prodigy Infotech

2024 April–June

- Analyzed 10,000+ customer reviews using NLP (TF-IDF, Word2Vec) improving sentiment accuracy to 85%.
- Performed EDA, KPI analysis, and automated analytics workflows increasing efficiency by 35%.
- Built dashboards using Power BI and SQL pipelines for automated data refresh.
- Developed classification models using Naïve Bayes and LSTM for sentiment detection.

Machine Learning Intern — Codveda

2024 July–Sep

- Developed CNN-based Deep Learning model achieving 92% accuracy for skin cancer classification.
- Applied augmentation & OpenCV preprocessing improving dataset quality and performance.
- Optimized TensorFlow training pipelines reducing training time and increasing accuracy.
- Executed full ML lifecycle — data preprocessing, training, evaluation, deployment.

PROJECTS

Medicine Identification — OpenCV, OCR, Python

- Built Tkinter application using OpenCV + Tesseract OCR achieving 85% extraction accuracy.
- Implemented preprocessing (thresholding, denoising) to improve OCR text detection.

- Designed parsing logic for extracting dosage, medicine name & disease classification.

Customer Support AI Moderator — Whisper, LangChain, LLMs

- Developed real-time pipeline integrating Whisper ASR for accurate transcription.
- Created LangChain-based LLM agent to generate call summaries and automate ticket creation.
- Reduced support resolution time by 15% and automated workflows saving 10+ hours weekly.

Analytics Dashboards — SQL, Power BI, Tableau

- Developed dashboards for churn analysis, forecasting, segmentation & sales insights.
- Built SQL pipelines for automated refresh and KPI reporting.
- Performed correlation analysis, trend forecasting and data storytelling.

EDUCATION

B.E. in Computer Science

SCSVMV University, Kanchipuram, India — Graduated: 2023

SKILLS

Python, SQL, Pandas, NumPy, Matplotlib, Seaborn, Data Cleaning, Feature Engineering, EDA, Data Analytics, Tableau, Power BI, Machine Learning, Deep Learning, TensorFlow, Scikit-learn NLP, Transformers, LLMs, Generative AI, RAG, Vector database, Azure ML, Flask, Streamlit, Git

CERTIFICATIONS

- Python Certification — HackerRank
- Agentic AI Certification — CuMinds Innovations
- Machine Learning Certification — Udemy