

REDDY ROHIT

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Experience

AiBioChip

Research Intern

Dec 2024

Remote

- Performed time-series analysis on 7 years of stock market data using **yfinance**, **NumPy**, and **pandas**; designed candlestick pattern detection logic for Doji, Hammer, Morning Star, and automated trend analysis.
- Visualized technical indicators and market trends using **matplotlib** and **seaborn** to derive actionable insights.

Projects

Image Classification | *TensorFlow, CNN, Image Processing*

Aug 2025

- Developed a CNN-based image classifier in TensorFlow to distinguish between cats and dogs using the Kaggle dataset.
- Applied image preprocessing techniques including resizing, normalization, and automated labeling from directory structure.
- Implemented Conv2D, MaxPooling2D, BatchNormalization, and Dropout layers for robust feature extraction and regularization.

Gemini Chat Application | *LangChain, Google Gemini, Streamlit*

Nov 2025

- Built an AI-powered chat application using LangChain integrated with Google Gemini 2.5-Pro to generate high-quality responses.
- Implemented a reusable response generation function with secure API key handling through environment variables (.env).
- Developed an interactive Streamlit interface enabling real-time Q&A interaction with the LLM.
- Gained hands-on experience with prompt handling, model invocation in LangChain, and deploying lightweight LLM apps.

LLM Input Embedding Pipeline | *Tokenization, Embeddings, Transformer Architecture*

July 2025

- Built an end-to-end input pipeline for GPT-like decoder-only transformers to convert raw text into model-ready embeddings.
- Tokenized text using a pretrained tokenizer (e.g., **AutoTokenizer**) and mapped token IDs into dense semantic embeddings.
- Integrated positional embeddings and prepared final input embeddings for transformer-based next-token prediction.

House Price Prediction Web App | *Machine Learning, Streamlit, Scikit-learn, EDA, Deployment*

Feb 2025

- Built and deployed an end-to-end ML web application in Streamlit to predict Bengaluru house prices from user-input features.
- Implemented a scalable **scikit-learn** pipeline with **RandomForestRegressor** and **OneHotEncoder** for automated preprocessing and inference.
- Performed EDA and ETL operations including data cleaning, feature engineering, and outlier removal to improve model accuracy.
- Deployed the model and interactive UI on Streamlit Cloud for public access: live demo.

Startup Profit Prediction | *Python, Scikit-learn, Pandas, EDA, Regression, Statsmodels*

July 2025

- Developed an end-to-end regression pipeline to predict startup profits, incorporating ETL, preprocessing, and feature engineering.
- Conducted EDA to identify correlations, detect inconsistencies, and improve model inputs.
- Implemented **Multiple Linear Regression** in **scikit-learn** and optimized predictors using backward elimination via **statsmodels**.
- Handled categorical variables with **OneHotEncoding** and documented the workflow in a reproducible Colab notebook (Colab Link).

Twitter Sentiment Notifier | *n8n, Hugging Face API, Twitter API, Telegram Bot, Docker*

June 2025

- Developed an automated real-time sentiment analysis pipeline using Twitter API and Hugging Face's **roberta-base** model.
- Implemented ETL workflows in n8n for data extraction, sentiment inference, and structured output generation.
- Integrated Telegram Bot API for instant negative sentiment alerts, enabling proactive monitoring.
- Containerized and deployed the pipeline on a self-hosted n8n instance with Docker for scalability and reliability.

Education

Indian Institute of Information Technology Kottayam

B.Tech in Computer Science and Engineering

Nov. 2022 – 2026

Kottayam, Kerala

Technical Skills

Programming & Tools: Python, SQL, Shell Scripting, Git, GitHub, VS Code

Data Engineering & Cloud: AWS (S3, EC2), GCP (BigQuery, Colab), Docker, Streamlit Cloud, n8n

Machine Learning & AI: Supervised & Unsupervised Learning, Regression, Classification, Feature Engineering, Model Evaluation, NLP, CNN, RNN, LSTM, Computer Vision

Libraries & Frameworks: Scikit-learn, TensorFlow, PyTorch, Hugging Face Transformers, Pandas, NumPy, LangChains