

# ANEESH KULKARNI

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## OBJECTIVE

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Data and AI Engineer skilled in Machine Learning, Generative AI, and API development with Golang and Python. Experienced in building intelligent backend systems integrating ML models and RAG pipelines using LangChain, FastAPI, and PostgreSQL, MySQL.

## EDUCATION

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Bachelor's In Electronics and Telecommunication Engineering  
AISSMSCOE, Pune

June 2021 - June 2025

## SKILLS

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- **Languages:** Python, Golang, SQL
- **Data Analytics:** NumPy, Pandas, Matplotlib, Seaborn, Power BI
- **Frameworks:** TensorFlow, Keras, Scikit-learn, LangChain
- **Backend & API Development:** FastAPI, RESTful APIs, gRPC
- **MLOps & Tools:** MLflow, Docker, Git, VSCode
- **Databases:** MySQL, PostgreSQL

## EXPERIENCE

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### Data Science Intern - CSM Digital Technologies

December 2023 - February 2024

- Developed a House Price Prediction model as part of internal data science tasks.
- Built and tuned regression models with feature engineering and hyperparameter optimization.
- Shipped a Tkinter GUI tool that allowed real-time price estimation and visualization.
- Documented evaluation metrics (MAE, RMSE) and improved model accuracy to  $R^2 \approx 0.90$ .

### Data Science Intern - Cision Technologies

October 2024 - November 2024

- Built and optimized ML workflows for internal projects.
- Designed Python scripts for data preprocessing and visualization using Pandas and Seaborn.
- Contributed to a chatbot optimization pipeline, improving accuracy and response.

### Trainee Software Engineer - Assimilate Technologies

September 2025 - Present

- Developing API's and handling the backend for the Privileged Access Management (PAM) project, focusing on discovery and session monitoring modules.
- Designed and deployed RESTful APIs using Golang and PostgreSQL, ensuring secure and efficient data flow across internal systems.
- Engineered both modules to achieve high concurrency, with the Discovery module handling over 5,000 API requests concurrently under load testing conditions.

# PROJECTS

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## House Price Predictor

- Built a machine learning model to predict housing prices in Mumbai based on location and features.
- Applied feature engineering, outlier removal, and model tuning to achieve  $R^2 \approx 0.90$ .
- Integrated model into a Tkinter-based GUI for real-time predictions.
- Tech: Python, Pandas, Scikit-learn, Tkinter

## SmartNews AI

- Developed an AI-powered Streamlit app that summarizes, explains, and translates news articles.
- Integrated Retrieval-Augmented Generation (RAG) and LLaMA3 for contextual question answering.
- Added automatic quiz generation for user engagement.
- Tech: LangChain, FAISS, Streamlit, FastAPI

## LSTM-Based Stock Market Forecasting

- Built an LSTM neural network to predict short-term stock price trends.
- Used yfinance to get the stock data.
- Compared model accuracy with linear models for performance benchmarking.
- Tech: TensorFlow, Keras, Pandas, Streamlit

## Image Captioning AI

- Developed a deep learning-based image captioning system combining CNN (feature extraction) and Transformer decoder.
- Used BLIP model for generating context-aware captions and integrated via Gradio interface.
- Tech: PyTorch, BLIP, Transformers, Gradio

# CERTIFICATIONS

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| • IBM AI Engineering                              | DEC 2024    |
| • Advanced Certification in AI and ML by Learnbay | In-Progress |