Gokul B

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Summary

Aspiring AI/ML Engineer skilled in Python, Machine Learning, Deep Learning, and Generative AI. Experienced in building end-to-end data science projects, developing predictive models, and deploying AI applications. IBM Data Science Professional Certificate holder with strong problem-solving, analytical thinking, adaptability, and effective communication skills.

Skills

Languages: Python, SQL

Machine Learning & AI: Machine Learning, Deep Learning, NLP, Computer Vision, Generative AI, LLM

Libraries & Frameworks: Pandas, NumPy, Scikit-learn, TensorFlow, Keras, PyTorch, NLTK, SpaCy, Seaborn, Matplotlib

Tools & Platforms: Streamlit, FastAPI, AWS SageMaker, Streamlit Cloud, Google Colab, Jupyter Notebook, VS Code, PyCharm

Other Skills: Data Visualization, Data Analysis, Statistics

Work Experience

Feynn Labs, Assam   Nov 2024 - Jan 2025

Machine Learning Intern

- Conducted market segmentation analysis for the EV market using clustering techniques to identify key customer segments.
- Analyzed market trends to support data-driven decision-making and improve targeted marketing strategies.
- Python, EDA , SKlearn, Decision making, KMeans Clustering and Statistical Analysis.

Self-Driven Data Science Projects   Jul 2024 - Oct 2024

- Developed predictive models for regression and classification, improving accuracy by 10–15% and reducing prediction error by up to 20% on real-world datasets.
- Performed data wrangling, EDA, and feature engineering on real-world datasets like IPL Auction 2023 and Covid-19.
- Automated data preprocessing pipelines using Python and Pandas, reducing manual data cleaning time by 50% across multiple projects.

Education

Vels University - Chennai   Aug 2022 - May 2026

B.Tech in Computer Science and Engineering (Artificial Intelligence and Machine Learning)   *CGPA: 7.5/10*

Relevant Coursework: Object Oriented Programming, Databases, Maths and Statistics, Data Structures and Algorithms, Operating Systems, Computer Networks, Machine Learning, Deep Learning, Natural Language Processing, Data Mining and Visualization

Project Work

- **Car Damage Detection using CNN (2025)** - Link: Developed a vehicle damage detection system using CNN, improving accuracy from 57% to 80% by integrating EfficientNet and ResNet with Optuna-based hyperparameter tuning. Deployed an interactive Streamlit app, reducing manual inspection effort by 60%.
- **Credit Risk Modelling (2025)** - Link: Built a credit risk prediction model achieving 90%+ recall through class imbalance handling and Optuna optimization. Delivered a real-time risk prediction app with Streamlit, processing 100+ predictions per session.
- **Health Insurance Premium Prediction (2024)** - Link: Created an XGBoost-based premium prediction model with 99% accuracy and a mean error under 5%. Automated preprocessing pipelines, reducing data preparation time by 50%, and deployed via Streamlit Cloud.

Certificates

- **IBM Data Science Professional Certificate** — Coursera
- **Deep Learning: Beginner to Advanced** — Codebasics
- **Statistics for Data Science and Business Analysis** — Udemy
- **Machine Learning A-Z** — Udemy