MANASVI KALYAN

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Profile

B.Tech CSE student specializing in AI and Machine Learning, strong foundation in data structures, algorithms, and Python/C++. CGPA of 8.97 reflecting academic excellence. Passion for AI evident in projects, including generative AI and cloud computing. 300+ LeetCode problems solved, showcasing problem-solving skills. Aspiring to contribute my extensive skill set and enthusiasm for AI and software development to innovative and challenging projects.

Internships

Quantstech - AI/ML, Algorithmic Trading, NLP, Streamlit, Langchain, OpenAI API, Kite Connect, REST API   *Nov 2023 – Ongoing*

AI/ML Python Developer Intern

Task 1
- Developed a website featuring 4 features, Resume Parser utilizing Hugging Face libraries and OpenAI API, Job Description generator, Job based questions and answers generator and a Resume to Job Similarity calculator.
- Deployed using Streamlit with Langchain and OpenAI API for conversational text generation with memory capabilities for 100% content retrieval.

Task 2

- Created a tool with Streamlit and OpenAI API, which converts broker documents into the company's preferred format, engages in stock market analysis, filtering data for relevance and formatting. Visualization and calculates profit, loss, and drawdown within specified date ranges.
- Deployed findings on Streamlit for user-friendly access with strategy generator that can analyze the data in 2/3 of time compared to manually.
- Engineered data extraction and analysis of Nifty 500 dataset using YFinance library, and historical data from Zerodha via KiteConnect API. Implemented and back-tested trading strategies (e.g., moving average, EMA, RSI), generating profitable signals with 20% ROI.

Projects

- **Flight Price Prediction**   *Jan 2024*
  - Developed a machine learning model using RandomForestRegressor to predict flight prices based on various features such as airline, source, destination, departure and arrival times, and duration.
  - Utilized data preprocessing, feature engineering, and hyperparameter tuning techniques to optimize the model's performance, achieving a high R-squared score for price prediction.
  - Bundled into a web application using Flask and the model is deployed as an API with UI made of HTML and CSS, Hosted on HuggingFace Spaces as a Docker Image.
- **Face Detection**   *Sep 2023*
  - Developed a real-time face detection project using Python and OpenCV. Built and tested model with the CascadeClassifier from the OpenCV. Implemented a capture loop at 20 FPS, convert them to grayscale, and detect faces using the model.
  - Annotated the detected faces within rectangles with coordinates (x, y, w, h). Ensured proper resource release upon exiting and well displayed annotated frames for visualization.
- **Text Analysis App**   *Dec 2023*
  - Developed a versatile text analysis app to calculate similarity scores (cosine similarity, BERT Score, and ROUGE Score) between the two pdf and highlighted the similar part. Additionally, it provides Text Summarization and Sentiment Analysis capabilities of pdf using pre-trained T5 models and NLTK's Vader sentiment analysis tool with visualization respectively.
  - Used Streamlit for user interface design and Deployed using Hugging Face Spaces. Also, tested using Flask API.

- **Crime Prediction**   *Mar 2023*
  - Experimented with 5 and more machine learning techniques, including Decision Trees, Naive Bayes, LinearSVC, and Random Forest, to predict high-crime areas using real-world crime data.
  - Performed feature engineering to enhance model accuracy, model performance using metrics like accuracy, precision, recall, and F1-score and AUC score and identified critical features influencing the accuracy by 2-8%

Achievements

Amazon ML Summer School '23   *Sep 2023*

- Acquired extensive knowledge expertise in machine learning and deep learning including supervised learning, deep learning, reinforcement learning, probabilistic graphical models, sequential models, and many more from Amazon's accomplished engineers.
- Gained profound insights into industry applications and real-world scenarios of AI in Healthcare, Automation, Biotechnology and more.

Solved 300+ LeetCode DSA Problems

- Achieved the milestone of solving 250+ LeetCode DSA problems in C++.

Education

Bennett University, Greater Noida   *Oct 2025*
B. Tech CSE | Specialization: Artificial Intelligence (CGPA: 8.97)

Skills

- **Languages**: C++, Java, Python, SQL, HTML, CSS, JavaScript
- **Technical Skills**: DSA, Generative AI, Machine learning, Natural Language Processing, Deep Learning, Rest API, Cloud Computing (AWS), Git, OpenCV
- **Framework**: Scikit-learn, TensorFlow, Pytorch, Streamlit, Langchain, Hugging Face, Flask
- **Soft Skills**: Teamwork, Leadership, Helpful

Research Paper

Legal Document Summarization   *Ongoing*

- Enabled Custom Dataset Generation (Cleaning, Labeling) of legal documents, decreasing data loading time by 85% for comparative testing.
- Implemented and dealt with variants of LSTM Networks and Transformers to improve tagging latency by 20% and hyperparameter tuning to improve results by 8%.
- Maintained a comparative study on different networks and analysis of which approach performs better at what specific task, ensuring 30% increase in efficiency.

Certificates

IBM Machine Learning Professional Certificate	AWS Academy Machine Learning Foundations	HTML, CSS, and JavaScript for Web Developers	Natural Language Processing with Classification and Vector Spaces