

Manasvi

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ABOUT ME

Aspiring Data Analyst with a strong foundation in Computer Science, Data Structures, and Algorithms. Proficient in Excel, Python, SQL, and Power BI, with hands-on experience in data cleaning, EDA, and predictive modeling. Passionate about transforming complex datasets into clear, actionable insights to support data-driven decision-making. Adept at building interactive dashboards and data tools with a focus on financial and customer analytics.

Education

B.Tech in Computer Science

Vivekananda Institute of Professional Studies, Delhi

CGPA: 8.8 | Expected Graduation: 2027

Class 12th – CBSE

Maharaja Agrasen Model School – 89%, 2023

Class 10th – CBSE

RockField Public School – 85%, 2021

TECHNICAL SKILLS

- **Languages & Frameworks:** Python, C++ (for algorithms), SQL (for data handling)
- **Libraries & Tools:** LangChain, OpenAI API, FAISS, Gemini API, LangGraph, Scikit-learn, Pandas, NumPy, TensorFlow, Hugging Face Transformers
- **Data Handling & Visualization:** Pandas, NumPy, Matplotlib, Seaborn, Power BI, Excel
- **Techniques & Methods:** Data Cleaning, EDA, Statistical Analysis, Predictive Modeling, Classification, Regression, NLP, Recommender Systems, RAG-based Systems, Time Series Forecasting, Document Embeddings
- **Deployment & Backend for AI:** Flask, Streamlit, Heroku, Docker, Git/GitHub

PROJECTS

YouTube Transcript - AI Chatbot - [Link](#)

- Developed an AI-powered YouTube Chatbot using Python and NLP libraries to fetch, summarize, and answer queries from YouTube video transcripts efficiently.
- Integrated API and web scraping techniques to retrieve YouTube video data and transcripts dynamically, improving user accessibility to video content.
- Implemented document embedding and semantic search using modern vector-based methods to provide accurate and context-aware responses.
- Built a user-friendly interface for querying videos, demonstrating practical full-stack project experience and real-world application of machine learning.

DoctorAI - [Link](#)

- Developed an AI-powered Doctor Assistant using Python and Flask to predict diseases based on user-reported symptoms.
- Implemented machine learning models (SVC) for symptom-to-disease prediction, achieving accurate and interpretable diagnostic results.
- Integrated multiple datasets (symptoms, precautions, medications, diets, workouts) to provide comprehensive disease insights and recommendations.
- Built a responsive web interface using HTML templates and Flask, allowing users to interact with the model and receive real-time predictions.

ALgolab - Learn Machine Learning Algorithms Visually - [Link](#)

- Led development of AlgoLab, an open-source platform to visualize supervised and unsupervised ML algorithms interactively.
- Implemented key algorithms (e.g., SVM, KNN, K-Means) with real-time graphical outputs to enhance conceptual understanding.
- Integrated features for custom dataset uploads, validation, and preprocessing using Python and modern Gradio UI (v5.11+).
- Managed GitHub project workflows with issue tracking, project boards, contributor roles, and code reviews.

Stock-Market Time Series Analysis - [Link](#)

- Developed stock price forecasting models using ARIMA, SARIMA, LSTM, and Prophet on historical time series data.
- Conducted data preprocessing, trend-seasonality analysis, and stationarity checks to prepare clean input for modeling.
- Evaluated model performance using RMSE, MAE, and MAPE to identify the most accurate forecasting method.
- Built an interactive dashboard with Streamlit to visualize forecasts, technical indicators, and model comparisons.
- Let me know if you'd like to highlight GitHub, deployment, or team contribution aspects too.

CERTIFICATIONS

- **Data Analytics Job Simulation – Deloitte (via Forage)**
Completed: May 2025
Completed practical tasks in data analysis and forensic technology.
- **Generative AI – Udemy**
Topics: LLM architecture, prompt engineering, OpenAI API usage, LangChain-like chaining techniques, and ethical considerations.