Harsh Patial

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Technical Skills

Languages: Java, Python, , C/C++, JavaScript, SQL, HTML, CSS
Frameworks: NumPy, Pandas, Matplotlib, Scikit-learn, PyTorch MySQL
Tools: Google Cloud Platform(GCP), Amazon Web Services(AWS)
Core CS Skills: Data Structures and Algorithms, Database Management Systems, Computer Networking, Machine Learning, Cloud Computing, Data Analytics, Automation Frameworks, Database Management
Soft Skills: Leadership, Collaboration, Communication, Teamwork, Team Building, Problem Solving, Strong Ownership

Projects

Smart Career Advisor | *Python, Flask, scikit-learn, XGBoost* | GitHub 🔗 **Aug 2024**

- Engineered a machine learning-based web application to provide personalized career guidance for students by analyzing their academic performance, technical skills, and personal interests.
- Implemented and evaluated multiple classification models, including Support Vector Machine (SVM) and Decision Tree, achieving a peak prediction accuracy of 93.3
- Developed the system using a three-tier architecture with a Flask backend, which integrates the trained model to serve predictions via a user-friendly interface.
- Sourced and preprocessed a dataset of 20,000 training samples from professional networks like LinkedIn and GitHub to build and validate the recommendation engine

Plant Disease Prediction | *Python, Scikit-Learn, Pandas, NumPy* | GitHub 🔗 **July 2025**

- Developed a machine learning pipeline to classify and predict plant diseases, performing data preprocessing and feature extraction with Pandas and NumPy.
- Implemented and evaluated multiple classification models, including Support Vector Machine (SVM), Random Forest, and Logistic Regression, to determine the most accurate predictor..
- Created detailed data visualizations using Seaborn and Matplotlib to analyze feature importance and present model performance metrics effectively.

Argumentor: AI-Powered Debate API | *Python, Flask, Gemini API,* | GitHub 🔗 July 2025

- Built and deployed a RESTful API using Flask to serve as the backend for an online debate platform.
- Integrated the Google Gemini API to power the core logic, enabling the dynamic generation of structured arguments and counter-arguments on user-defined topics.
- Engineered API endpoints to receive user prompts, process requests via the Gemini model, and return formatted debate points in JSON.

Education

Vellore Institute of Technology, Bhopal **Aug 2023 – Present**
B.Tech in Computer Science and Engineering — CGPA: 8.76 *Bhopal, India*

Kendriya Vidyalaya Bolarum **July 2022**
ISC Class 12th — Percentage: 81.2% *Hyderabad, India*

Kendriya Vidyalaya No.2 Chandimandir, Chandigarh **July 2020**
ICSE Class 10th — Percentage: 82.8% *Chandigarh, India*

Certifications

Cloud Computing(IIT karagpur) **Apr 2025**

- Achieved a commendable score of 77% in the final assessment.

Applied Machine Learning in Python(University of MICHIGAN) **Dec 2024**

- Leveraged Python libraries like Pandas & Matplotlib to analyze and visualize a large dataset.

Advance SQL for Technical Interviews **March 2025**

AWS APAC Solutions Architecture Virtual Experience **March 2025**

Fundamentals of AI & ML (Vityarthi) **June 2025**

Python Essentials(Vityarthi) **March 2025**

Summer of Codefest'25 **July 2025**

Solved more than 100 DSA problems on LeetCode

Achievements

TechSaksham — Intern   **Intern**
Dec 2024 – Jan 2025   ,

Hacktoberfest 2024   **Contributor**
Oct 2024   ,

Postman API Student Expert   **Certification**
Oct 2025   ,

Social Summer of Code (SSOC)   **Contributor**
May 2025   ,

Mother's Day & Father's Day Challenge   **Participant**
May 2025 – June 2025   ,

Extracurricular Activities

Fintech Club - *Core Member*   **2024**
  ∗ Managed and organized various occasions and events.
Omdena Club - *Core Member*   **2024**
  ∗ created content for various occasions and events.