AYUSH DINESHBHAI DEVANI

B.Tech. - Computer Science & Engineering - School of Technology

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BRIEF SUMMARY

I am Final-year B.Tech CSE student at GSFC University with hands-on experience in MERN stack development and AI/ML. Built full-stack web apps using MongoDB, Express.js, React.js and Node.js along with chatbot and ML-based projects. Passionate about building scalable, user-focused solutions and continuously learning new technologies.

KEY EXPERTISE

Python · Machine Learning · LangChain · Data Science · Gen Ai · Java · NodeJS · ExpressJS · MongoDB · SQL · Git

EDUCATION

GSFC University | 2022 - 2026

B.Tech. - Computer Science & Engineering - School of Technology | CGPA: **8.50 / 10**

K. K. HIGH SCHOOL, Savarkundla | 2022

12th | GSEB | Percentage: **70.15 / 100**

H. N. VIRANI HIGH SCHOOL, BADHADA | 2020

10th | GSEB | Percentage: **76.50 / 100**

INTERNSHIPS

Purezza Technologies | 09 Nov, 2024 - Present

Data Scientist

Key Skills:

Python · model training · backend · frontend · backend frontend connection · data generation · api integration · Data Processing · data ga · Data Gathering

Performed security analysis on web applications to mitigate SQL Injection and XSS vulnerabilities, enhancing system robustness. Developed a Device Control system to monitor and detect file CRUD operations in the system. Built Customer Support chatbot using kaggle dataset. Built a User Behavior Analytics (UBA) tool to log file upload events with metadata, including timestamp, file name, network port, and hostname. Contributed to ReviewsAI project by developing AI-driven solutions for sentiment analysis and review summarization, improving user experience for e-commerce platforms. Awarded Intern of the Month for outstanding performance and contribution to real-world projects.

Hackveda | Others | 01 Dec, 2024 - 12 Jan, 2025

Python Developer

Key Skills: Exploratory Data Analysis (EDA) · Python · SMTP · Web Scraping

 Developed a SMTP email sender, Web Crawler, and Stock Screener using Python.
 Strengthened programming skills and gained practical experience in software development.
 Skills - Error Solving, Googling, Presentation, Deadline management, Clean Coding.

PROJECTS

Student Attendance Management System

Team Size: 2

Key Skills: Java · JavaFX · MySQL

 Developed a database-driven system to manage student attendance efficiently.
 Built a JavaFX-based interface for marking attendance and generating reports.
 Integrated MySQL backend for secure and fast data storage and retrieval.
 Applied object-oriented programming principles to ensure modularity and maintainability.
 Improved reporting accuracy and minimized manual tracking errors.

Multi-language Farmer Assistance Chatbot

Team Size: 1

Key Skills: Python · Rasa · NLP · LLM Models

- Built a conversational AI chatbot using Rasa to assist farmers with agriculture-related queries in real time.
- Integrated the chatbot into a farmer marketplace application to offer in-app support and guidance.
- Enabled support for three languages: Hindi, Gujarati, and English.
- Implemented custom actions for automatic language detection and personalized replies based on input channel.
- Provided information on crop selection, fertilizer use, and farming best practices.
- Integrated a language model (LLM) to enhance and refine the chatbot's final responses.

Textbook Q&A RAG-Based System

Team Size: 1

Key Skills: Python · Flask · pdfplumber · sentence-transformers · FAISS · LangChain · Grok API

- Developing a Retrieval-Augmented Generation (RAG) system to help students ask questions based on uploaded textbooks in PDF format.
- Enabled PDF upload and text extraction using pdfplumber for accurate content processing.
- Used sentence-transformers for embedding generation and FAISS for fast retrieval of relevant text sections.
- Integrated a generative model (e.g., flan-t5-small or Grok API) to generate concise, context-aware answers.
- Built a Flask-based web interface for uploading files and performing Q&A tasks interactively.
- Created a student-focused tool aimed at improving learning efficiency through instant and accurate textbook-based answers.

Hackveda Limited Internship Projects

Team Size: 1

Key Skills: Python · SMTP

- Developed Python-based tools to strengthen programming and software development skills.
- Built an SMTP Email Sender tool to automate email delivery using Python's built-in libraries.
- Created a web crawler to scrape and process structured data from websites.
- Developed a stock screener to filter and analyze stocks based on predefined parameters.

TradeBoon Stock Screener

Team Size: 1

Key Skills: Python · Flask · Dash · MongoDB · yfinance · Alpha Vantage API · Javascript · HTML · CSS

- Developed TradeBoon, a web-based platform for stock trading and market analysis with real-time data integration.
- Implemented OTP-based user authentication and login system, storing user data securely in MongoDB.
- Integrated Dash for real-time stock charting (candlestick, line, OHLC, bar) using NSE stock data.
- Built modules for portfolio tracking and transaction management with API-based market data and sentiment analysis.
- Enabled order placement with simulated trade execution and confirmation via email using Flask-Mail.
- Added watchlist and historical data analysis features to support informed trading decisions.
- Delivered a complete solution to help users make better financial decisions through live data and secure access.

Boston House Price Prediction

Team Size: 1

Key Skills: Python · Flask · Scikit-Learn · HTML

- Developed a web application to predict house prices in Boston using a linear regression model trained on the Boston Housing dataset (R^2 score: 0.71).
- Built a Flask backend with API and form-based routes to process 13 input features, applying StandardScaler for data normalization.
- Designed a responsive user interface using Tailwind CSS with labeled input fields and real-time prediction output.
- Used pickle to serialize the trained model and scaler for smooth deployment and efficient predictions on new data.

ThinkBoard – Idea Collaboration Web App

Team Size: 1

Key Skills: Node.js · Express.js · MongoDB · React.js

- Developed a full-stack web application for creating, editing, and organizing notes in a structured board format.
- Built RESTful APIs using Express.js and connected them to MongoDB for efficient data management.
- Designed a responsive and user-friendly frontend using React and Tailwind CSS.
- Designed modular architecture for scalability and ease of feature expansion.

ACHIEVEMENTS

- Finalist in Smart India Hackathon 2024, ranked among the Top 5 teams in India for Problem Statement SIH1640, selected from over 500 competing teams.

ASSESSMENTS / CERTIFICATIONS

Responsible & Safe AI Systems

Aggregate: 77 / 100
Subjects: Responsible & Safe AI Systems (77 / 100)
Key Skills:

Responsible AI Development   AI Safety and Ethics   Bias Mitigation in AI Systems   Secure AI Model Deployment

Risk Assessment in AI Applications

The Responsible & Safe AI Systems course, offered by NPTEL and funded by the Ministry of Education, Government of India, was successfully completed by Devani Ayush Dineshbhai with a consolidated score of 77%. Conducted under the guidance of Prof. Kishhore Kothapalli, Professor and Dean (Academics) at IIT Hyderabad, this course equipped me with critical knowledge and skills in developing ethical and secure AI systems. Key topics included designing AI models with fairness and transparency, mitigating biases, ensuring safety in AI deployments, and addressing ethical challenges in AI applications. The certification involved rigorous online assignments (scored 21.97/25) and a proctored exam (scored 54.55/75), with a total of 3358 candidates certified. This course enhanced my ability to build responsible AI solutions, aligning with industry standards for ethical and safe technology development.

POSITIONS OF RESPONSIBILITY

Student Volunteer, ICON-AI-SMT'25, GSFC University, Vadodara, Gujarat, India

 Contributed to the successful organization of the 1st International Conference on Interdisciplinary Horizons: Integrating AI in Science, Management, and Technology.
 Assisted in event coordination, participant management, and technical support.
 Helped enhance the overall experience for attendees and presenters through effective on-ground support.

PERSONAL INTERESTS / HOBBIES

- Cricket

WEB LINKS

- Github - https://github.com/AYUSHDEVANI

PERSONAL DETAILS

Gender: Male

Marital Status: Single

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Date of Birth: 18 Jan, 2005

Known Languages: Gujarati, Hindi, English

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