

ASHISH KUMAR PATEL

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Technical Skills

Languages : Python, Java, SQL

Frameworks : TensorFlow, Flask, FastApi, LangChain

Technologies and Tools: Numpy, Pandas, Matplotlib, Seaborn, scikit-learn, OpenCV, NLP, RAG LLM, Transformer, ChromaDB, Data analysis, Git, GitHub, Tableau

Certifications

GenAi Oracle Cloud Infrastructure Generative AI Professional(Oracle) [↗](#)

IBM AI Engineer Professional Certification(Coursera) [↗](#)

Google Cloud Foundations Program((Google) [↗](#)

Postman API Fundamental Student Expert (Postman) [↗](#)

Education

Vellore Institute of Technology, Bhopal

Integrated MTECH Computer Science (Computational and Data Science), 8.83/10

September 2021 - Present

Bhopal, MadhyaPradesh

School of excellence no. 1 , Sidhi

MPBSE 12th STD, 98%

July 2020 - May 2021

Sidhi, MadhyaPradesh

School of excellence no. 1 , Sidhi

MPBSE 10th STD, 98%

july 2018 - May 2019

Sidhi, MadhyaPradesh

Projects

Behavioral Disorder Analysis | *python, supervised algorithm, RAG, LLM, Flask*

June 2024 – September 2024

- Implemented a ML model for **early detection of behavioral disorders** in children aged 0-14, collaborating with **5 healthcare professionals** to ensure accuracy and relevance.
- Integrated conversational chatbot and an intuitive interface with custom-built APIs for **real-time result prediction**, enhancing **user engagement by 30%** and accelerating processing speed by 20%.
- Built backend services managing **over 25+ user records** and **automating communication** with a 95% success rate.

E-commerce AI Agent | *Python, LLM, Plotly, FastApi, HTML, CSS, Js(Vanilla)*

May 2025 – July 2025

- Designed and Deployed** an advanced **AI-powered E-commerce Analytics Agent** that converts complex natural language questions into executable **SQL queries** to provide real-time business insights from a substantial sales dataset.
- Enhanced User Experience and Transparency** by building a modern, **web interface** that visualizes the entire analytical workflow: Question → SQL Query → Answer → Interactive Plotly Chart.

Internship

NullClass EDTech Private Limited

Feb 2025 – April 2025

Data Science Intern

Remote

- Developed an Age and Gender detection model under OpenCV using ResNet50 and VGG16,, achieving **97% and 91% accuracy**. Led the complete data science lifecycle, Utilized a publicly available dataset (e.g., UTKFace), Data preprocessing, feature engineering, and model training. Performed thorough performance evaluation using metrics such as accuracy, precision, recall, MAE and RMSE to ensure robust model performance.

TheSmartBridge

Apr 2024– Jun 2024

Business Analytics Intern

Remote

- Conducted data visualization and analysis on airline datasets to derive dashboard- actionable business insights.
- Collaborated with business teams to implement data-driven strategies and decision-making processes.

Publications

- Mental Health Assistant Using Machine Learning** – published by Springer in the book series Lecture Notes in Networks and Systems (SCOPUS Indexed, Q4, ISSN: 2367-3370). [↗](#)

Achievements

- Earned the **STARS Scholarship** at VIT Bhopal University by **ranking #1** in the district in the 12th board exams.
- Secured 34th Rank in GSSoC'24 Leaderboard as Open source Contributor, Merged 81 PRs, Scored 2335.
- LeetCode: Solved **650+ problems**, achieving a rating of **1550 (Top 22%)**; CodeForces:rating of 870; GeeksforGeeks: Rated among the **Top 2.89%** coders with a **rating of 1750**.
- Participated in the Microsoft Learn Student Ambassadors Challenge on Azure Fundamental.