VIRAG JAIN

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EDUCATION

VIT BHOPAL UNIVERSITY *Sep 2022 - July 2026*
B.Tech in Computer Science and Engineering, Specialization in Cloud Computing and Automation *CGPA: 8.13*
- Relevant Coursework: Cloud Computing Architecture, DevOps and Automation, Machine Learning, Big Data Analytics, Distributed Systems, Data Mining and Warehousing, Business Intelligence

WORK EXPERIENCE

Data Science Intern *Feb 2025 - March 2025*
Unified Mentor

- Conducted comprehensive analysis on tobacco use and mortality data using Python and statistical modeling techniques
- Developed predictive models for retail sales forecasting using machine learning algorithms, achieving 82% R-squared accuracy
- Performed exploratory data analysis on 10K+ grocery sales records, identifying key patterns and trends in consumer behavior
- Built end-to-end data pipelines for processing healthcare and retail datasets, implementing ETL processes for data quality assurance

Data Analytics Intern (Virtual) *Apr 2025 - May 2025*
Deloitte

- Performed comprehensive data analysis on enterprise datasets using SQL and Python for business intelligence solutions
- Developed interactive Power BI and Tableau models to extract actionable insights from complex business data
- Utilized advanced Excel and statistical modeling techniques to support strategic business decisions

PROJECTS

MovieMate – Hybrid Movie Recommendation System *Jun 2025 - Aug 2025*
  Tech Stack: Python, FastAPI, React, Tailwind CSS, Scikit-learn, Surprise (SVD), TF-IDF, Groq API

- Built a hybrid recommender system (TF-IDF + SVD) improving prediction relevance by 35%
- Integrated Groq API for unseen movies, reducing cold-start issues by 20%
- Designed a React + Tailwind frontend with 100ms UI response time for real-time usability

Pothole Detection System – CNN-based Road Safety Tool *Aug 2024 - Sep 2024*
  Tech Stack: Python (Pandas, NumPy, Scikit-learn, Matplotlib), TensorFlow, Keras, OpenCV

- Developed a CNN model achieving 92% accuracy in classifying pothole vs. plain road images
- Implemented real-time webcam detection, reducing manual road inspection by 60%
- Prepared infrastructure for future YOLOv3 object detection integration, improving precise pothole localization

Soil Sense – AI-Powered Crop Recommendation System *Oct 2024 - Dec 2024*
  Tech Stack: Python, Flask/FastAPI, IoT Sensors, AWS/Firebase, Scikit-learn, NumPy, Pandas

- Developed an AI-driven crop recommendation system leveraging real-time soil data from IoT sensors, improving crop selection accuracy by 40%
- Automated real-time monitoring and recommendations, reducing manual soil testing and decision-making time by 60%
- Integrated Flask/FastAPI backend with cloud-based data storage for scalable and secure processing of soil parameters

TECHNICAL SKILLS

- **Languages/Tools:**: Python, SQL, Tableau, Power BI, Excel, ETL
- **Libraries/Frameworks:** : Pandas, NumPy, Scikit-learn, Matplotlib, Flask
- **Big Data & Cloud**: PySpark, Hadoop, Hive, HBase, Apache Airflow, AWS, Git, Docker

CERTIFICATIONS

- Data Analytics Professional Certificate - Google
- Devops Fundamentals - IBM

LEADERSHIP AND CAMPUS ENGAGEMENT

Vice President, Cloud Zone Club, VIT Bhopal University *Oct 2023 - July 2024*

- Led the Cloud Zone Club as Vice President, organizing 12 technical sessions with an average of 50 participants per session
- Fostered awareness about iOS development, cloud technologies, and DevOps through comprehensive technical workshops

Core Member, D2C Igniters Club, VIT Bhopal University *Jan 2024 - Jan 2025*

- Spearheaded organization of three major technology showcases, attracting over 500 students across university
- Ignited entrepreneurial spirits through interactive workshops that fostered creativity and innovation in tech development