

ASHUTOSH SHUKLA

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EDUCATION

Bachelors of Computer Science and Engineering, Vellore Institute Of Technology, Bhopal 2022 - Present
Relevant Coursework: Machine Learning, Python Programming, Database and Management Systems,
OOPS with C++, Programming in JAVA, Web Programming

TECHNICAL SKILLS

Languages	Python, C++, MySQL
Frameworks and Tools	Machine Learning, Tensorflow, Data Science, Azure Cognitive Services, Data Analytics, Deep Learning, Power BI
Development Tools	Linux, Github

EXPERIENCE

[Machine Learning Intern](#) - Remote Internship Dec 2024 - Feb 2025

Jay Analytix Inc., Ontario, Canada

- Developed Python scripts and end-to-end data pipelines using Azure Data Factory, processing 1M+ records and reducing processing time by 70%.
- Built interactive Power BI dashboards with integrated SQL views, improving refresh failure analysis by 30% and enabling real-time insights from 100+ operations and datasets.
- Leveraged Azure Blob Storage and Databricks for scalable data storage and processing, ensuring seamless integration with ETL pipelines and error-free reporting workflows.

[Research Intern](#) June 2024 - Jul 2024

IIT BHU (ISRO's RAC-S)

- Improved Accuracy of Space-Time Image Velocimetry (STIV) with Deep Learning using CNN, achieving 89.90% accuracy.
- Displayed real-time video of PIV using FFmpeg and HLS with latency of 4 seconds on a webpage.
- Processed video data and obtained velocities and other valuable insights from it.

PROJECTS / ACCOMPLISHMENTS

[SIF - Space Hackathon at IISF '23 17th Jan - 19th Jan](#)

- Created a machine learning model with 96% accuracy to forecast the link between LULC and GDP using the Markov chain model and nighttime light.
- Used QGIS to visualize and monitor the satellite images.

[Formula 1 Analysis](#)

- F1 Data Analysis Web App: Developed a Streamlit-based web app providing analysis and insights into the 2023 F1 season, showcasing drivers' performance, race trends, and predictive outcomes.
- Data Visualization Expertise: Demonstrated strong technical skills in Python, Streamlit, and data visualization to create interactive dashboards that align with fan engagement and strategic insights for motorsport marketing.

CERTIFICATES

- [IBM AI Engineering\(Coursera\)](#)
- [Cloud Computing\(NPTEL\)](#)
- [100 Days Of Code - Python Bootcamp\(Udemy\)](#)
- [Accenture - Data Analytics and Visualization\(Forage\)](#)

EXTRA-CURRICULAR ACTIVITIES

- Core Team Member at the [GeeksForGeeks](#) club chapter at VIT Bhopal. Learning some basic concepts of Team Management and Project Execution as well as enhancing my technical writing skills.