ASHISH SAHU

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Education

National Institute of Technology   November 2022 – Present
Bachelor of Technology in Biomedical Engineering —CGPA-6.57   Rourkela, Odisha

Jawahar Navodaya Vidyalaya   April 2019 – March 2021
Higher Secondary, CBSE (PCMB) —percentage: 88%   Kalahandi, Odisha

Jawahar Navodaya Vidyalaya   August 2014 – March 2019
Secondary Education, CBSE —percentage: 92%   Kalahandi, Odisha

Relevant Coursework

- Data Structures and Algorithm
- Operating Systems
- Object-Oriented Programming
- Database Management System
- Python Programming
- Computer Networks
- Web Development
- Artificial Intelligence

Experience

Novanectar Services Pvt. Ltd.   May 2025 – June 2025
Data Analyst Intern   Remote

- Worked on multiple real-world datasets involving car pricing, e-commerce, Air India ticket pricing, and air quality using Python and SQL.
- Performed extensive data cleaning, preprocessing, and exploratory data analysis using Pandas, NumPy, and Matplotlib.
- Built dashboards in Power BI to analyze environmental factors of Manesar (Gurgaon) including pollution, urbanization, and land use.
- Developed predictive models to estimate air quality and pricing trends using classification techniques.
- Created feature engineering pipelines and visualized key business insights through heatmaps, histograms, bar charts, and pie plots.

Independent Developer   Jan 2025 – Present
Self-Driven Projects   Remote

- Initiated and developed full-stack projects including a Train Delay Prediction System and Portfolio Website.
- Utilized Python, Flask, React.js, and GitHub to build and maintain codebases.
- Actively building a collection of real-world tools to improve public utility, automation, and tech awareness.
- Open to freelance or open-source collaboration opportunities in backend and data domains.

Projects

Indian Rail Delay Prediction System   May 2025 – Present
Python, scikit-learn, Flask, HTML/CSS

- Built a machine learning model using Indian Railways data to forecast train delays.
- Processed CSV data, performed feature engineering, and trained models using scikit-learn.
- Deployed model using Flask with a simple HTML UI for live predictions.

Job Recommendation System using NLP   July 2025
Python, Scikit-learn, Streamlit, NLP

- Developed a content-based job recommendation system using resume/job description similarity.
- Used TF-IDF vectorization and cosine similarity to match user input with job roles.
- Built a Streamlit interface for user-friendly access and demo.

Personal Portfolio Website   April 2025 – May 2025
React.js, TailwindCSS, GitHub Pages

- Designed and deployed a responsive personal portfolio with animated transitions and scroll effects.
- Showcased personal projects, GitHub contributions, and downloadable resume.
- Deployed live on GitHub Pages with a custom domain.

Technical Skills

- **Languages:** Python, C/C++, Java, HTML/CSS, SQL, JavaScript

- **Developer Tools:** VS Code, Git, GitHub, Postman, MySQL Workbench, Google Cloud Platform, Power BI

- **Technologies/Frameworks:** Flask, Streamlit, React.js, TailwindCSS, FastAPI, Anaconda, Langchain (basic), PyTorch (basic)

- **Libraries:** Pandas, NumPy, scikit-learn, Matplotlib, Seaborn, TensorFlow (basic), OpenCV

Extracurricular Activities

Innovision – Technical Fest of NIT Rourkela   **Aug. 2025 – Nov 2025**
Team Lead   *National Institute of Technology, Rourkela*
- Led a core team responsible for organizing flagship technical events during Innovision 2023.
- Coordinated logistics, event scheduling, and real-time problem-solving across multiple venues.
- Collaborated with faculty and student teams to ensure smooth execution and high participation.