

# Ayush Prajapati

Jamshedpur, India

Github: [github.com/ayush-p2000](https://github.com/ayush-p2000)

Email: [ayushprj2000@gmail.com](mailto:ayushprj2000@gmail.com)

Mobile: +44 7424703273 / +91 6206286464

Linkedin: [linkedin.com/in/ayush-prajapati-89b22a224](https://linkedin.com/in/ayush-prajapati-89b22a224)

## EDUCATION

- The University of Sheffield** Sheffield, UK  
• *MSc. Advanced Computer Science - Machine Learning & AI Grade: 2:1* Sept 2023 - Sept 2024  
*Courses:* Object-Oriented Programming (Java), Machine Learning, Mobile Application Development, Web Development, Software Reengineering
- Arka Jain University** Jharkhand, India  
• *Bachelor of Computer Applications - Data Science; GPA: 9.4* Aug 2019 - June 2022  
*Courses:* Operating Systems, Data Structures, Analysis Of Algorithms, Data Science, R, Python, Deep Learning, Networking, Databases

## SKILLS SUMMARY

- Languages:** Python, SQL, C++, JavaScript, Bash, Java
- AI/ML:** Scikit-learn, TensorFlow, PyTorch, Keras, OpenCV, NLTK, SpaCy, LlamaIndex, LangChain
- Big Data & Cloud:** Spark, Kafka, AWS, GCP, Snowflake, Kubernetes, Docker, CI/CD
- Databases:** PostgreSQL, MySQL, SQLite, MSSQL, MongoDB
- Tools & Platforms:** Streamlit, Power BI, Git, Jira, Confluence, Agile/Scrum, Microsoft Office
- Soft Skills:** Problem-Solving, Communication, Collaboration, Adaptability, Technical Leadership, Time Management

## RELEVANT EXPERIENCE

- Onlei Technologies** Remote  
• *Data Science Intern (Full-time, Certification)* Dec 2022 - Jun 2023
  - Developed and optimized **ETL pipelines** for efficient big-data processing.
  - Built and deployed ML models (**classification & regression**) using **Python, PyTorch, TensorFlow**, and **Scikit-learn**, improving predictive accuracy by **30%**.
  - Applied **NLP techniques (NLTK, SpaCy)** to analyze and extract insights from unstructured text data.
  - Deployed models as **API microservices** using **Docker & CI/CD pipelines**.
  - Created interactive dashboards using **Matplotlib** and **Seaborn** for real-time insights.
- Wipro Technologies** Coimbatore, India  
• *Systems Engineer (Full-time)* Feb 2023 - Aug 2023
  - Managed large-scale SQL databases (**MSSQL, Oracle, PostgreSQL**), ensuring data integrity, availability, and performance
  - Streamlined ticket management using **ServiceNow**, reducing average resolution time for client issues
  - Automated data extraction and transformation processes using **Python** and **SQL**, improving efficiency by **35%**
  - Designed and optimized **data pipelines**, reducing query execution time by **40%** through indexing and query optimization

## PROJECTS

- Twitter Post Sentiment Analysis (NLP, Data Processing, modeling datasets, APIs):** Sentiment Analysis of tweets from a tweeter post to determine the positivity or negativity spread. Processed 1.6M tweets using Python and NLP techniques, creating structured datasets for machine learning models. Built data transformation pipelines and visualization components achieving 80% model accuracy. Tech: Python, Pandas, NLTK, TfidfVectorizer, Matplotlib, Logistic Regression, Random Forest, XGBoost, Decision Trees, & TensorFlow
- Face Mask Detection System:** AI model to detect people wearing facemasks. Developed a real-time data pipeline that processes video streams using Python, OpenCV, and Keras to detect face mask usage. Implemented data storage processes for capturing and storing non-compliance instances in a structured format for analysis. Created an interactive dashboard with Streamlit that visualizes compliance data and integrates with multiple data sources. faster. Tech: Python, Numpy, GCP, OpenCV, Keras, Streamlit, & OpenCV.
- Dissertation Project - Implementing Semantic Tableaux for different logics:** A research based project to build a GUI-based logics solver for educational purposes. Developed a web-based AI-driven logic solver using Python and Streamlit for real-time formula validation and visualization. Implemented data processing pipelines using collection frameworks available, optimizing performance for large-scale logic analysis. Built a custom parser for structured data processing, applicable to data modeling and ETL workflows. Tech: Python, Collections Framework, Streamlit, NetworkX, Matplotlib, pydot, & Streamlit.

## ADDITIONAL INFORMATION

- Certification:** (Work in Progress) IBM Professional Full Stack Developer by Coursera
- ECA:** Tech Fest Event Manager and Support Assistant (During Bachelors (2020), India)
- Hobbies:** Guitarist, Vocalist, Gaming, Cooking, Sports (Outdoor, Indoor)
- Flexibility:** Willing to relocate based on business requirements