

# Ayush Prajapati

Kuala Lumpur, Malaysia

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## EDUCATION

- **The University of Sheffield** Sheffield, UK  
Sept 2023 - Sept 2024
  - *MSc. Advanced Computer Science - Machine Learning & AI; Grade: 2:1*
- **Arka Jain University** Jharkhand, India  
Aug 2019 - June 2022
  - *Bachelor of Computer Applications - Data Science; GPA: 9.4/10*

## TECHNICAL SKILLS

- **Frontend:** React (v16-19), Next.js, TypeScript, JavaScript, Redux, HTML5, CSS3, Tailwind CSS
- **Backend:** Node.js, Express.js, C# .NET (MVC), RESTful APIs, LINQ, ASP.NET Core
- **AI/ML:** Python, PyTorch, TensorFlow, Scikit-learn, Keras, OpenCV, NLTK, SpaCy, LangChain
- **Databases:** MSSQL, PostgreSQL, MongoDB, MySQL, SQLite
- **DevOps:** Docker, Kubernetes, Jenkins, CI/CD, Bitbucket, GitHub, GCP, AWS
- **Tools:** Jira, Confluence, SonarQube, Streamlit, Agile/Scrum, Git

## PROFESSIONAL EXPERIENCE

- **Accenture (UOB Bank)** Kuala Lumpur, Malaysia  
Aug 2025 - Present
  - *Senior Software Engineer*
    - Lead frontend development for mission-critical banking modules using **React (v16-19), TypeScript, and Redux**, reworking legacy components and building reusable UI libraries for enterprise-scale applications
    - Architect and deliver scalable backend solutions with **C# .NET MVC, RESTful APIs, and MSSQL**, utilizing LINQ optimization to reduce API response times by 40%
    - Own end-to-end CI/CD pipeline using **Jenkins and Bitbucket**, ensuring automated builds, controlled deployments, and zero-downtime releases for banking systems serving millions of customers
    - Mentor junior engineers through code reviews, design consultations, and Agile practices, while collaborating with cross-functional teams using **Jira** for sprint planning and delivery
- **Wipro Technologies** Coimbatore, India  
Feb 2023 - Aug 2023
  - *Systems Engineer*
    - Managed business-critical **SQL databases (MSSQL & Oracle)** while implementing performance optimizations that improved query execution time by 35%
    - Automated data pipelines using **Python** scripts, streamlining ETL processes and reducing manual processing overhead
    - Implemented **CI/CD pipelines** and unit testing frameworks, ensuring code quality and reliability across application deployments
- **Onlei Technologies** Remote  
Dec 2022 - Jun 2023
  - *Data Science Intern*
    - Built and deployed ML models using **Python, PyTorch, TensorFlow, and Scikit-learn**, achieving 30% improvement in predictive accuracy
    - Applied **NLP techniques (NLTK, SpaCy)** to extract insights from unstructured text data and developed interactive dashboards using **Streamlit**

## KEY PROJECTS

- **YouTube Analytics Platform with AI Sentiment Analysis:** Built full-stack application using **Next.js/React (TypeScript)** frontend and **Node.js/Express** backend to analyze YouTube video performance metrics. Integrated **Python-based NLP models** for real-time sentiment analysis of comments using AI techniques. Implemented YouTube Data API integration for extracting engagement metrics and deployed on **Vercel** with serverless architecture. **Tech:** **Next.js, TypeScript, Node.js, Python, NLP, YouTube API, Vercel**
- **ePanda E-Waste Recycling Platform:** Led development of full-stack web application with **Node.js/Express** backend and **MongoDB**. Implemented OAuth 2.0 authentication, payment gateway integration (Stripe/PayPal), and achieved 80% test coverage. Served as Scrum Master coordinating Agile development team. **Tech:** **Node.js, Express, MongoDB, React, Jest, Mocha, GCP**
- **Twitter Sentiment Analysis Engine:** Processed 1.6M tweets using **Python, TensorFlow, and NLP techniques (NLTK)**, achieving 80% accuracy. Built data transformation pipelines and visualization dashboards using **Matplotlib and Seaborn**. **Tech:** **Python, TensorFlow, Pandas, Matplotlib, XGBoost**
- **Real-Time Face Mask Detection System:** Developed computer vision system using **Python, OpenCV, and Keras** for mask detection with real-time video processing. Created interactive **Streamlit** dashboard for compliance monitoring. **Tech:** **Python, OpenCV, Keras, TensorFlow, Streamlit, GCP**

## CERTIFICATIONS & INTERESTS

- **Certifications:** IBM Full Stack Developer, Data Science Intern Certificate (Onlei Technologies)
- **Interests:** Open-source contributions, AI/ML research, Guitarist, Vocalist, Gaming, Cooking, Sports