AYUSH KUMAR TIWARI

+91-9997959795 • ayush-tiwari@outlook.com • LinkedIn • GitHub • Web • LeetCode

EDUCATION

Aligarh Muslim University • Aligarh   *July 2017 - July 2021*
Bachelor of Technology, Computer Engineering   *CPI : 8.77/10*
Relevant Courses: Object Oriented Programming, Data Structure and Algorithms, Machine Learning, DBMS, OS

SKILLS

Programming Languages	Java, Python, C++, C#, JavaScript, SQL, Solidity, MySQL, Postgresql, MongoDB
Technologies	Angular, Spring Boot, Docker, Kubernetes, Jenkins, Azure, Kafka, Distributed Systems
AI/ML	Deep Learning, CNN, RNN, NLP, BERT, TensorFlow, Keras, PyTorch

WORK EXPERIENCE

Flipkart (Walmart)   *Bengaluru, India*
Senior Software Engineer II   *Jan 2025 – Present*
- Contributing to the Promotion & Pricing team, delivering dynamic pricing and personalized offers at scale through distributed systems and microservices, enhancing the Flipkart shopping experience.
- Scaling distributed systems with Kafka, Elasticsearch, designing asynchronous workflows, optimizing databases.

UnitedHealth Group (Optum)   *Gurugram, India*
Senior Software Engineer   *Mar 2023 – Jan 2025*
- Developed scalable microservices based claim report generation application using Java Spring Boot, Spring Cloud, Angular, Docker, and Kubernetes, optimizing resources with multithreading and monitoring.
- Developed a Pending Claim Resolution project, reducing pending claims by 30%.
- Managed a team to migrate deployment processes to the CI/CD pipeline with GitHub and Jenkins.

Software Engineer   *Sep 2021 – Mar 2023*
- Enhanced US healthcare applications for end-to-end claim processing pipeline, generating $200 million in revenue.
- Created an Admin Dashboard using Microservices architecture and Angular.

Autonise   *Bangalore, India*
Deep Learning Intern   *Jan 2021 – Jun 2021*
- Developed a deep learning model for classifying raw speech signals into emotions with up to 98% accuracy.
- Enhanced model generalization using Self-Attention mechanisms and crafted features.

PATENT

Methods, Apparatuses, and Computer Program Products for Contextually Aware Debiasing
US Patent Appl. 18/523, 312   *UHG Inventor*
- Led implementation of a debiasing algorithm using the BERT model, reducing biased terms by 90%.
- Built a browser application for writing job descriptions with UHG's HR department.

ACADEMIC PROJECTS

- **Distributed Banking System:** Built a scalable online banking system with a microservices architecture using Java Springboot. Tech Stack: Java, Spring Boot, Spring Cloud, Netflix OSS, Kafka
- **Drowsy Driver Detection System For Road Safety:** Developed a system with 87.5% accuracy to alert drowsy drivers using Python and Keras. Tech Stack: Python, OpenCV, Keras
- **End-to-end Encrypted Chat Application:** Created a real-time encrypted chat application with Angular and Springboot. Tech Stack: Java, Javascript, Springboot, Angular, Websocket, AES Encryption

HONORS & CERTIFICATIONS

- 2nd prize in Optum(UHG) Hackathon for developing an AR application for ASD communication.
- Leetcode (Top 2%), Codeforces, GeeksForGeeks, Hackernoon: Solved 1500+ DSA problems
- Certification: Neural Networks & Deep Learning (deeplearning.ai), Blockchain Technology (Princeton University)