Ayush Kumar

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Education

Lakshmi Narain College of Technology	July 2021 - June 2025
B.Tech in Computer Science - Artificial Intelligence and Machine Learning	*8.71 CGPA*

Experience

Software Developer Intern	Jun 2023 – Aug 2023
Xplorazzi Technologies Ltd.	*Bengaluru*

- Designed and built an annotation review tool, increasing annotation accuracy by 40% and efficiency by 50%.
- Developed robust backend APIs using Flask to streamline data processing and integrate with the frontend.
- Integrated OpenCV for precise image processing and adjustments of bounding boxes and labels.
- Engineered efficient data storage solutions, ensuring secure handling of annotated data.
- Tested the web development flow and fixed bugs to prepare the project for production.
- Tech Stack: *React, JavaScript, Python, Flask, OpenCV, Fetch API, Bitbucket*

Projects

TreeSense Imaging (Smart India Hackathon) | ⌂ | ⊕

- Developed an image analytics system, enabling automated tree counting and forest data visualization.
- Integrated ML predictions into the UI for tree counts, species identification , and green cover estimation
- Implemented Google Maps API for geospatial mapping and Weather API for climate-based analysis.
- Ensured a seamless user experience by optimizing UI components and integrating APIs efficiently.
- Tech Stack: *React.js, Chart.js, YOLOv8, TensorFlow.js, Google Maps API, Weather API, Dijkstra Algorithm, image segmentation, Unix/Linux.*

Maskify | ⌂ | ⊕

- Developed an anonymous discussion platform allowing users to share opinions, thoughts, and confessions securely.
- Built community and moderation features to ensure user engagement and healthy discussions.
- Implemented OAuth 2.0 authentication and JWT-based authorization for security compliance.
- Integrated real-time chat feature using Socket.io, enabling seamless communication among users.
- Tech Stack: *React, Node.js, Express.js, Axios, MongoDB, Socket.io, OAuth 2.0, JWT, Unix/Linux.*

Youtube Video Summarizer Extension | ⌂

- Developed a Chrome extension that converts YouTube videos into summarized text using NLP.
- Enabled users to export transcripts as PDFs using jsPDF.
- Optimized the extension UI to enhance user experience by making the layout more intuitive for summarizing long videos.
- Tech Stack: *HTML, CSS, JavaScript, Fetch API, Hugging Face, Flask*

Technical Skills

Languages: C++ | Python | SQL | JavaScript | HTML | CSS
Frameworks & Library: React.js | Node.js | Express.js | Flask | JQuery | Material UI | Tailwind
Tools & Technology: MySQL | MongoDB | EJS | RESTful API | JSON | Axios | Git | Postman | Docker | Linux | AWS | TCP/IP | JWT | Socket.io

Achievements

- Solved over 400 Data Structures and algorithms problems on platforms such as LeetCode and GFG.
- Secured 5th rank nationally at Smart India Hackathon 2023.
- Mentored pre-final year students at LNCT for placements, conducting mock interviews and providing technical and behavioral guidance.

Certifications

IBM: Intoduction to Cloud Computing | Introduction to Web Development with HTML, CSS & JavaScript
Cisco: PCAP : Programming Essentials in Python | Cisco Certified Network Associate (CCNA)
AWS: Cloud Foundations | Cloud Practitioner Essentials