Ayushman Kumar Singh

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EDUCATION

B.Tech Computer Science Engineering Vellore Institute of Technology Bhopal, CGPA: 8.69/10.00	**Sep 2022 – May 2026**
12th Standard, Swaraj India Public School, Kanpur, ISC: 81%	**May 2022**
10th Standard, Swaraj India Public School, Kanpur, ICSE: 82%	**May 2020**

TECHNICAL SKILLS

Programming Languages: Java, Python, Dart, JavaScript
Web & App Development: React, Flutter, HTML, CSS, Flask
Cloud & DevOps: AWS (S3, Lambda, DynamoDB), Docker, Git, GitHub
Databases: MongoDB, MySQL, SQL
Operating Systems: Linux, Windows
Other: System modeling, application design, API integration, problem-solving, debugging

WORK EXPERIENCE

Android FrontEnd Developer Intern   **Oct 2024 – Dec 2024**

Gagahealth Private Limited 🔗

- Integrated REST APIs into the front-end interface using Flutter and Dart, enabling seamless client-server communication.
- Designed and implemented user onboarding screen flow in Flutter, increasing retention by 25%.
- Diagnosed and resolved 15+ UI/UX issues using cross-browser testing, responsive design tools, and integration testing.
- Collaborated with the backend team using Git, GitHub to ensure continuous integration and deployment.

PROJECTS

Customer Churn Prediction Model 🔗

- Developed and trained an Artificial Neural Network (ANN) using TensorFlow and Keras to predict customer churn with high accuracy.
- Built an interactive web application with Streamlit, enabling real-time churn probability analysis based on user input.
- Implemented data preprocessing pipelines using Scikit-learn and Pandas for feature scaling and categorical encoding.
- **Tech Stack:** Python, TensorFlow, Keras, Scikit-learn, Pandas, Streamlit

PDF Insight Engine

- Developed a system to extract and rank relevant sections from diverse PDF documents, using style-based heading analysis and weighted relevance scoring.
- Implemented automated content extraction with header/footer detection, ensuring clean, readable outputs.
- **Tech Stack:** Python, PyMuPDF (fitz), Algorithm Design

Serverless Background Removal Web App

- Engineered a full-stack asynchronous web application on AWS for AI-powered background removal.
- Implemented event-driven architecture using S3 triggers and Python Lambda functions for scalable processing.
- **Tech Stack:** Python (Flask, Boto3), AWS (S3, Lambda, ECR), Docker, HTML/CSS

ACHIEVEMENTS AND EXTRACURRICULAR

Make A Difference (MAD) Fellowship   **Mar 2025 – Present**

- Selected for a competitive fellowship to mentor underprivileged youth, providing one-on-one guidance on academics and life skills.
- Organized monthly technology literacy and career exploration workshops for 50+ students.

Student Coordinator – Internship Cyber Safety Hackathon   **Jan 2025 – Sep 2025**

- Led organization of a national cybersecurity hackathon, increasing participation by 40% to 350+ teams.
- Conducted cyber safety awareness sessions across six colleges, educating 500+ students.

Smart India Hackathon (MHRD)   **Aug 2024 – Dec 2024**

- Co-developed a full-stack MERN portal to improve Ministry of AYUSH's startup registration process.
- Demonstrated teamwork, rapid prototyping, and problem-solving under tight deadlines.

CERTIFICATIONS

- IBM GenAI using Watsonx	Apr 2025
- CEH-Certified Ethical Hacker	Dec 2024
- Google IT Support – Computer Networking	Dec 2023