Ayushman Kumar Singh

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EDUCATION

B.Tech Computer Science minors in Cyber Security, VIT Bhopal University, 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

Languages: Java, Python, JavaScript, Solidity, SQL
Frontend: React, HTML, CSS, Flutter, Streamlit
Backend: Node.js, Express.js, Flask, FastAPI
Databases: MongoDB, MySQL, PostgreSQL
AI/ML: TensorFlow, Keras, Scikit-learn, Pandas
Blockchain: Ethereum, Smart Contracts, Zero-Knowledge Proofs (Circom, SnarkJS)
Cloud & Tools: AWS (S3, Lambda), Docker, Git, GitHub, REST APIs

WORK EXPERIENCE

Front End 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 and GitHub to ensure continuous integration and deployment.

PROJECTS

DocSec: Decentralized Document Security with ZK Proofs

- Engineered a decentralized document verification system leveraging blockchain and Zero-Knowledge Proofs to ensure file integrity and confidentiality.
- Developed and deployed Solidity smart contracts on an Ethereum-based network using Hardhat for immutable file hash management and role-based access control.
- Built a full-stack application with a React frontend and FastAPI backend to interact with the blockchain and generate ZK proofs using Circom & SnarkJS.
- **Tech Stack:** Solidity, React, FastAPI, ZK Proofs (Circom, SnarkJS), Ethereum

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

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.

CERTIFICATIONS

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