TUSHAR SAHNI

📞 +91 8837801609 ✉ tusharsahni1234@gmail.com 🔗 LinkedIn ⭕ Github

EDUCATION

Punjab Engineering College (Deemed to be University), Chandigarh — **2022-2026**
B.Tech in Computer Science & Engineering (Data Science) — *7.39/10 CGPA*

DAV Sr Sec School, Chandigarh — **2022**
All India Senior School Certificate Examination — *96.4 %*

WORK EXPERIENCE

HTC Global Services — **Feb 2025 – Jun 2025**
AI Intern — *Remote/Bengaluru*
- Built reusable fine-tuning pipelines using techniques like **LoRA/QLoRA** for training large language models on AWS Bedrock and Sagemaker
- Created **rapidWhl**, a web application to convert FastAPI projects into production-ready Python packages, supporting zipped uploads and Git-based private repositories via access tokens.
- Developed a semantic bug detection system to identify contextual duplicates in Excel files with over **25,000 records**, improving data validation workflows.

PROJECTS

CoinGuard – A personalised finance tool — **Source Code**
- Developed a full-stack application for personalized financial management, incorporating secure user authentication and profile management.
- Utilized **Node.js, Express.js, TailwindCSS, JWT and PostgreSQL** to create a robust solution, implementing comprehensive budgeting and expense tracking features, while enhancing the user experience with intuitive dashboards.

DarkDetect – Detecting Dark Patterns — **Source Code**
- Created a project to detect dark patterns on e-commerce websites, achieving **90%** accuracy and minimizing both false positives and false negatives.
- Employed modern technologies such as **NLP, Python Flask, and web scraping** to develop effective browser extensions aimed at countering deceptive tactics like false urgency, improving user experience, and promoting ethical practices.

GoldTrends – A gold price prediction model — **Source Code**
- Built a predictive model using **Random Forest Regressor** to forecast gold prices based on historical data, achieving a high accuracy through feature engineering and model optimization.
- Designed a responsive web application with Flask, featuring an easy-to-use interface that allows users to input features and receive real-time price predictions.

SKILLS

Languages: C++, Python, R, SQL, JavaScript
Frontend: HTML, CSS, TailwindCSS, Bootstrap , Streamlit
Backend & Tools: Node.js, Express.js, FastAPI, Postman, Git
ML & Libraries: NumPy, Pandas, Scikit-Learn, LoRA, QLoRA, Prompt Engineering
LLMs & GenAI: Azure OpenAI, AWS Bedrock, Gemini APIs
Fundamentals: DSA, Operating Systems, Computer Networks, OOPS, DBMS
Clouds & Databases: PostgreSQL, MongoDB, AWS Sagemaker & S3

CERTIFICATIONS/ ACHIEVEMENTS

- Solved **400+** problems on various platforms including LeetCode and GeeksforGeeks, covering topics of DSA and SQL.
- Completed a course in C++(Data Structures and Algorithms). – C++ Course Completion Certificate
- Achieved a certificate in Python and related libraries such as NumPy and Pandas. – Python Pro Bootcamp Certificate
- Achieved a certificate in Machine Learning Specialization by Standford University and Deeplearning.ai

POSITIONS OF RESPONSIBILITY

Implementation Body (IB) Member of IEEE PEC
- As an active Implementation Body (IB) member of IEEE PEC, contributed to the marketing team by securing multiple sponsors leading to a **25%** budget increase, and played a key role in organizing major events such as Technovation and Robowars.

Institute Organising Committee
- Led efforts in the college organizing committee, ensuring the successful execution of events such as the E-Summit, PECFEST (Annual College Fest), and the Annual Sports Meet.