Shubham Tripathi

Roll No : 23BCE11262
Computer Science and Engineering (Core)
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GitHub Profile
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Portfolio Link

Summary

Developer specializing in **Swift, AI-ML**, and the **MERN stack**, adept at architecting scalable applications and optimizing complex algorithms. Recognized for translating business needs into robust, high-impact solutions. Excels in cross-functional collaboration, rapid prototyping and delivering production-ready software within tight deadlines.

Experience

○ **amasQIS.ai**   **June 2025–Dec 2025**

AI Intern/ Python, ML, MERN   *Remote*
  1. Medical Coding prototype that auto-maps clinical notes to ICD-10 codes with **92%** precision on a 15,000-record test set.
  2. Completed a **3-month** intensive Machine Learning training program, developing skills in ML, agents, etc.
  3. Contributed to 2 production features in ongoing client projects, reducing manual annotation time by **30%** through workflow automation.

Projects

○ **War Game** | *Swift*   ○ **Github**
  1. A classic War card game built using **Swift** This project simulates the two-player card game where players battle by comparing cards.
  2. Automatic shuffling and dealing of cards. Real-time gameplay simulation with visual updates. Tracks scores and determines the winner after the deck is exhausted

○ **AgriSmartSuite** | *Python + Flask REST API,scikit-learn, pandas, NumPy*   ○ **Github**
  1. ML models recommend optimal crops and predict yields from soil nutrients, weather, and acreage, arming farmers with data-driven decisions.
  2. Flask REST API, Python models, and a React (Vite + Tailwind) frontend deliver a responsive, chart-rich UX.
  3. clean separation of backend, ML, and UI simplifies maintenance and showcases production-ready engineering.

○ **HealthRecSys** | *Python,Flask,Bootstrap + HTML/CSS*   ○ **Github**
  1. SVC model predicts diseases from user-reported symptoms with high accuracy.
  2. Delivers instant, personalized medication, diet, exercise, and precaution recommendations.
  3. Python-Flask web app runs fully offline; clear separation of data, ML, and responsive UI safeguards privacy.

Technical Skills

Languages: C, HTML/CSS, Python, C++, Java, Javascript
Web Developement: React.js, Node.js, Express.js, Tailwind CSS, WebSockets, FastAPI, Redux
Databases: MySQL, MongoDB
DevOps & Cloud: Docker, AWS
AI/ML: scikit-learn, TensorFlow
Other Tools: Git, GitHub, VS Code, Linux & Mac
Skills: Data Structures, Python Programming, C Programming, Theory of Computation, Operating Systems,DBMS.

Education

Vellore Institute of Technology,Bhopal   **2023–2027 (expected)**

B. Tech. in Computer Science and Engineering (Core)   *CGPA: 9.20**
- Relevant Coursework: Data Structures & Algorithms, Operating System, Python Programming, C Programming , Probability and Statistics , Compiler Design , Theory of Computation , DBMS.

Achievements/Extracurricular

○ **Competitive Programming**
  1. Attained **newbie (Max Rating: 1098)** on Codeforces , **3-Star (Max Rating: 1692)** on Codechef and Leetcodedemonstrating strong algorithmic proficiency.
  2. Solved over **250+** coding problmes across multiple platforms, demonstrating advanced algorithmic expertise and adaptability.
  3. Achieved **Global Rank 448** in CodeChef Starters 143 (Div 2) outperforming **20,000+** participants.
  4. Technical Core member Freelancing Club at VIT.
  5. Awarded an Elite Certificate in Introduction to Machine Learning from the NPTEL exam conducted by **IIT Madras.**