SOUMYA PRASAD CHANDRA

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Education

- **Jain (Deemed-to-be University)** — MCA | CGPA : **9.0** **2023 - 2025**
- **Maulana Abul Kalam Azad University And Technology** —— B.SC | CGPA **: 9.02** **2019 - 2022**
- **Banipur Baniikatan High School** —— *WBCHSE (Class XII) | CGPA : **6.0*** ***2018 - 2019***
- **Habra High School** —— *WBCE (Class X) | CGPA : **7.2*** ***2016 - 2017***

Skills

Programming Languages	C, C++, Python, Java(Core)
Web Development & Cloud	HTML5, CSS3, JS, CI-CD, Git-lab, Docker, Azure(BS), AWS(Ec2, ES, Lambda).
Frameworks	Django, Flask(Core), Fastapi, React, Tenserflow
Databases	MySQL, MongoDB, PostgreSQL, S3, Vector DB(Faiss, Chroma).
Tools	Draw.io, Figma(core), ERD, Postman, Hopscotch
Others	DSA, OOPS, Celery, Redis, Pytest, LLM, LangChain, Microservices, ML.

Work Experience

Shyam Steel Manufacturing Limited | Software Developer — Jun 25 – Present

- **Developed enterprise-grade applications** using **Python (Django, FastAPI)**, **React(Core)**, and microservices, integrating with ERP systems to streamline manufacturing workflows.
- Designed and deployed **AI-powered solutions** using **Large Language Models, LangChain**, **Langgraph** and custom prompt engineering for intelligent process automation and decision support and focusing on bug fixes.
- *Built **Retrieval-Augmented Generation** pipelines with **Chroma** and **PostgreSQL**, enabling domain-specific search and question answering over production and ERP datasets.*
- *Fine-tuned and deployed **deep learning models** TensorFlow for predictive maintenance, anomaly detection, and process optimization.*
- *Developed secure **REST APIs** and integrated AI services into existing web platforms, ensuring scalability, performance, and maintainability.*
- *Implemented **CI/CD pipelines** and cloud deployment strategies on **AWS**, **SNS** improving release efficiency and model inference speed.*
- *Collaborated with cross-functional teams, conducted code reviews, and mentored junior developers to ensure adherence to **best practices** in coding, security, and performance.*

Webskitters Technology Solutions Private Limited | Software Developer — May'24 - Apl'25

- **Development** of scalable web applications, improving user capacity by 40% and significantly enhancing the overall customer experience. *Used: Django, WebSocket, AWS S3, Azure*
- **Comprehensive code reviews** to enforce coding standards, ensuring improved security, scalability, and maintainability across all modules. *Used: Git, GitLab, CI/CD pipelines, Python, JavaScript*
- **Collaborated with cross-functional teams** to integrate machine learning algorithms into the platform, resulting in a 25% improvement in data processing efficiency.*Used: Python, TensorFlow, Scikit-learn, Pandas, Langgraph*
- **Pioneered the design and implementation** of a new **RESTful API**, streamlining data retrieval and bolstering system performance across multiple services. *Used: Fastapi, PostgreSQL, MySQL*
- **Automated testing processes**, increasing code coverage by 30% and significantly improving application robustness and reliability. *Used: Pytest.*
- **Assisted in transitioning the development environment to Azure**, improving the consistency and reliability of the deployment pipeline. *Technologies Used: Azure, Docker*
- **Worked on key coin-based projects** like Tradify and Singleexchange, developing features for cryptocurrency exchange platforms with high security and scalability in mind. *Used: Django, WebSocket, PostgreSQL, AWS S3, Azure(BS)*

Advance Software Technologies Private Limited | Software Engineer — Nov'22 - Apl'24

- **Designed and developed user-friendly applications** using **Django**, improving communication between client databases and backend
- services through Socket for real-time updates.
- **Enhanced Ingredient APIs**, optimizing performance and ensuring smooth data flow for the application.
- *Used: PostgreSQL, MySQL*
- **Collaborated directly with the executive team** to define and track KPIs for web properties that received over 22M visitors annually,
- using **SQL** and **Google Sheets** for data analysis and reporting.
- **Developed frontend components** using **JS**, focusing on usability and ensuring seamless integration with backend services.
- **Improved data analysis** by implementing algorithms for ingredient prediction, improving data accuracy for business decision-making.
- *Technologies Used: Python, Machine Learning algorithms*
- **Implemented data testing and validation** procedures, ensuring robust and error-free data processing.

Sikharthy Infotech Private Limited | Software Developer **Apl 21 – Oct 22**

- **Developed a Full-Stack Engineering Tool** to track progress across internal departments, using **React.js** for the frontend and **Jinja Tem**
- for certain components. *Used: React.js, Django*.
- **Implemented RESTful APIs using Django**, improving reporting speed for the analytics team by 64% and streamlining data retrieval.
- *Technologies Used: Django, FastAPI, PostgreSQL, REST APIs*
- **Provided Tier 2 support** for 8+ systems, focusing on bug fixes, system optimizations, and data changes to ensure uninterrupted
- business operations. *Used: SQL, MySQL, Troubleshooting Tools*.

Projects

Virtual Concierge - Food Ordering & Delivery Application **July 24 - Oct 24**

Developed a real-time AI-powered food ordering and delivery mobile application that enables users to place orders through voice interactions. Integrated AI models for real-time speech-to-text processing and dynamic order management. Implemented WebSocket and Socket.IO for seamless, low-latency bi-directional communication between client devices and servers to capture user voice inputs, process them via AI engines (using OpenAI APIs), and return actionable order data instantly.

- Designed and built backend services with Django and Flask to handle order workflows, payments(Stripe), and user management.
- Developed and deployed scalable microservices on Azure and AWS S3 for media storage and cloud computing tasks.
- Integrated OpenAI models for natural language understanding (NLU) and intent recognition to enhance user experience.
- Set up real-time voice data transmission using WebSockets and Socket.IO for immediate server-client communication.
- Managed source code, CI/CD pipelines, and collaboration using GitLab.

Smart Home Control Panel - Desktop Simulator **July 24 - Aug 24**

- A GUI-based desktop simulation of a smart home control system where users can manage various components like lights,
- fans, temperature, security, and energy usage analytics.
- Key Contributions:
- Real-time device control simulation (on and off toggles, temperature dials)
- Room-wise configuration using tabs or frames
- Authentication-login system & Theme toggle (light or dark mode)
- Data logging and visualization (`matplotlib`)
- MQTT or simulated networked communication backend
- Skills Used**:** `Python`, `Tkinter`, `OOP`, `Architecture`, `Multithreading`, `Visualization`, `Auth`, `MQTT`

Quiz Application **Sep 23 - Apr 23**

- Designed and developed a scalable, MCQ-based educational quiz platform using Spring Boot, Spring Data JPA, MySQL,
- Thymeleaf, and Bootstrap 5.
- Built dynamic backend services to manage quiz creation, randomization of questions, user sessions, scoring mechanisms,
- and result analytics. Implemented a mobile-responsive frontend with Bootstrap for an enhanced user experience. Focused on
- clean RESTful architecture, secure data handling, and efficient database querying to support multiple concurrent users.
- There are a total of ten questions. The goal is to create an educa2onal app that quizzes a user about a certain topic of your choice.
- Developing blogging platform on HTML, CSS, JavaScript, JQueryand using Python Django.
- Used HTM, CSS for fronted and web-based user Interface. Development tools for employee attendance.
- There are two module attendance system software for employee and admin using Face Recognition.

Heart Disease Prediction Analysing **Aug 2022**

- Built a machine learning-based heart disease prediction model using Logistic Regression, K-NN, SVM, Random Forest, BPNN, and MLP algorithms.
- Applied 10-fold cross-validation to ensure robust model evaluation and generalization.
- Achieved highest prediction accuracy of 93.19% using Decision Tree classifier.
- Performed feature selection, hyperparameter tuning, and model optimization to improve performance.
- Evaluated models using precision, recall, F1-score, and ROC metrics for reliability.
- Focused on designing a scalable and interpretable ML pipeline for medical data analysis.

Courses and Certification

- HackerRank Certification — Python, JavaScript, SQL, Problem Solving.
- Simplilearn — Python Fundamentals, Intro of Artificial Intelligence

Academic and Extracurricular Achievements

- **Coding profiles :** Hackerank, GFG, Leetcode, CodeChef.