Supratim Ghosh

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Location: Kolkata, India

Career Objective

Aspiring Data Analyst and AI/ML Engineer with a deep interest in machine learning, artificial intelligence, and data analytics. Looking to contribute innovative solutions by leveraging my strong programming skills, academic foundation, and hands-on experience in backend development and data-driven projects. Seeking an internship to apply my technical knowledge and continue learning in a dynamic environment.

Education

Heritage Institute of Technology
Bachelor of Technology (B. Tech) | Information Technology (IT) Major
2022 – 2026
1st Year YGPA: 7.26 | 2nd Year YGPA: 8.4 | 5th Semester SGPA: 9.05 | 6th Semester Ongoing

St. Xavier's Collegiate School, Park Street
Class 12 (ICSE)
2021 | 88%

Carmel School, Sarangabad
Class 10 (ICSE)
2019 | 94%

Skills

- Programming Languages: Python, Java, C, JavaScript, SQL (OracleDB, MySQL), NoSQL (MongoDB, SQLite)
- AI/ML Libraries: TensorFlow, OpenCV, NumPy, Pandas, Scikit-learn, PyTorch
- Web Technologies: HTML, CSS, JavaScript, JSP, React Native
- Cloud Technologies: AWS (Amazon Web Services)
- Tools & Software: Git, Docker, Jupyter Notebook, Google Colab, Power BI
- Databases: Oracle, MySQL, MongoDB, SQLite
- Other Skills: Microsoft Excel, Data Analytics, Backend Development, AI Ethics, AI Tools

Certifications

Machine Learning Specialization by Stanford University (Coursera)
- Courses: Supervised Learning, Unsupervised Learning, Advanced Learning Algorithms
- Gained expertise in machine learning concepts including regression, classification, clustering, neural networks, and deep learning.
- Hands-on experience with Python libraries such as NumPy, Pandas, and Scikit-learn for data manipulation and model implementation.

Projects

1. **Biometric Attendance System using Fingerprint Recognition** (Ongoing)
- Developing a school/college-level biometric attendance system using fingerprint recognition powered by deep learning.
- Leveraging PyTorch with a ResNet18-based model to perform fingerprint classification and identity verification.
- Includes preprocessing pipeline, real-time fingerprint scanning simulation, and automated attendance logging.
https://drive.google.com/drive/folders/1vOguBg2e7recIsNLnPuv16bNMzijtoCU?usp=sharing

2. **Lost Person Recognition and Crowd Control System** (Under Development)
- Designing a facial recognition-based system aimed at locating missing individuals during large mass gatherings and assisting in crowd management.
- Planning backend development using Python with machine learning model integration; frontend development planned with modern web technologies.

3. **Indoor Navigation System for Confined Spaces** (Prototype Completed)
- Collaborated on developing an indoor navigation solution to guide users through large indoor environments such as railway stations and airports.
- Implemented backend services and created the mobile application using React Native.
- Integrated Bluetooth beacons and Wi-Fi triangulation techniques for real-time indoor positioning and navigation.

4. **Portfolio Website**
- Designed and deployed a personal portfolio website to showcase professional experience, projects, and technical skills.
- Built with modern web technologies including HTML, CSS, JavaScript; deployed on Netlify.
- Emphasized responsive design, interactive UI, and desktop-first development principles.

5. **Food Ordering and Delivery System Website**
- Developed a responsive web application for online food ordering and delivery.
- Utilized HTML, CSS, JavaScript for the frontend, and JSP (Java Server Pages) for backend server-side scripting. MySQL for database.

Achievements

• Achieved **94% in Class 10** (ICSE Board) from Carmel School, Sarangabad, showcasing strong academic fundamentals and consistency.
• Achieved **88% in Class 12** (ISC Board) from St. Xavier's Collegiate School, Park Street, demonstrating academic excellence in higher secondary education.
• Completed the **'Machine Learning Specialization'** by Stanford University on Coursera, covering supervised, unsupervised, and advanced learning algorithms.
• Participated in **HackHeritage** (college-level hackathon event modeled after Smart India Hackathon), enhancing practical problem-solving and collaborative development skills.
• Successfully developed functional prototypes for real-world challenges, including a **Lost Person Recognition System and an Indoor Navigation Solution.**
• Demonstrated consistent academic improvement during B.Tech with a **significant rise in YGPA and SGPA over semesters**.

Extracurricular Activities

• **Private Tutor** (Self Employed)- Tutored school students (classes VI–XII) in core mathematics, science and computer science (CBSE/ICSE/WBBSE curriculum).
• **Former competitive swimmer** with active participation in several competitions organized by the club, demonstrating a strong interest in the sport.
• **Karate enthusiast** with several accolades, showcasing discipline, focus, and resilience.
• Active participant in **college hackathons** and tech events, fostering teamwork and real-world problem-solving skills.
• **Passionate** about **technology innovation** and continuous learning beyond academic curriculum.
• Interest in emerging fields like AI Ethics and Responsible AI, reflecting a forward-thinking approach to technology.