SAGAR MONDAL

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Education

Vellore Institute of Technology, Chennai   Sep 2021 – Jul 2025
Bachelor of Technology in Computer Science and Engineering | 8.97/10 CGPA   *Chennai, Tamil Nadu*

Jagadbandhu Institution, Kolkata   Apr 2018 – Jul 2020
Class 12th: 88.6%   *Kolkata, West Bengal*

Experience

Software Developer Intern   Jan 2025 – Jul 2025
IBM India Private Limited   Completion Certificate *Bengaluru, India*

- Incorporated microservices and managed document processes to make an enterprise-level eSignature platform more secure and able to work seamlessly with other external systems.
- Created a system based on n8n that was designed for workflow automation and offered functions like dynamic task chaining, conditional actions, integration with APIs and real-time tracking of event-based actions.

Summer Research Intern   Jun 2024 – Jul 2024
Centre for Cyber Physical Systems, VIT Chennai   Completion Letter *Chennai, India*

- Proposed and implemented **PlantNetLite**, a novel lightweight CNN model with only **3,706,506** parameters, to classify tomato diseases using the **PlantVillage** dataset. Secured an impressive **97.09%** accuracy rate
- Deployed InsightCAM, a cutting-edge explainable AI tool that improved model interpretability while enhancing data clarity by **50%**, which resulted in reducing decision-making time for analysts by nearly one-third.

Web Development Intern   Aug 2023 – Nov 2023
Ethnus   Completion Letter *Bengaluru, India*

- Created and implemented high performance, scalable web applications using the **MERN** stack.
- Introduced and optimized a loosely coupled architecture for backend services, accelerating development efficiency by **30%**.

Technical Skills

Programming Languages: Python, C/C++, Java, JavaScript, R, PHP, TypeScript
Frameworks & Libraries: ReactJS, Express.js, Node.js, Django, Flask, JQuery, AJAX, OpenCV, NumPy, Scikit-Learn, Pandas, Matplotlib, TensorFlow, Keras, PyTorch
Developer Tools: Git, GitHub, Windows, Linux, VSCode, CI/CD, Firebase
Databases & Cloud: SQL, MySQL, NoSQL, MongoDB, PostgreSQL, Google Cloud, AWS, Azure
Languages: English, Bengali, Hindi, Spanish
Others: Public Speaking, Teaching, Debate, Project Management

Projects

SwachhSagar - Underwater Waste Detection Web Application | *Python, Flask, Numpy, Pandas, Plotly, TensorFlow*

- Resolved the issue of growing underwater waste in oceans and seas by implementing **YoloV8** based underwater waste detection, trained on a dataset of **5000** images. Classified water as habitual for aquatic life or not. Github | Live

Aurora - AI Platform | *React js, Next js, Tailwind, Prisma, MySQL, Stripe, Clerk, Crisp, OpenAI API, Replicate API*

- Streamlined an all-in-one content generation platform utilizing **OpenAI** and **Replicate APIs** for audio, image, code, video, and conversation; enhanced productivity by **30%**, resulting in a **25%** increase in user satisfaction. Github | Live

CookingCrafter - Recipe Web Application | *MongoDB, Express, ReactJS, NodeJS, JWT, Stripe, GraphQL, TheMealDB API*

- Deployed a web application enabling users to search for and save recipes, add ingredients to shopping carts, order groceries, or send shopping lists via email, featuring more than **20,000+** options. Github | Live

Achievements

- Leetcode: Maximum Rating - **2158(Guardian)** Profile
- GeeksforGeeks: Institute Rank - **12 out of 8729** registered students and Contest Rating - **1860** Profile
- Codechef: Maximum Rating - **1607 (3 Star)** Profile
- Secured **2nd position out of 198 teams** in Double Slash 2.0 organized by IEEE, Jadavpur University. Certificate
- Won **2nd Place** in Quiz-A-Thon "Quality in Software Development and Engineering" at VIT, Chennai Certificate
- Selected as one of the top **3000** students for the Amazon Machine Learning Summer School, 2024. Acknowledgement letter

Certifications

- Microsoft Certified: Azure Data Scientist Associate (**Microsoft DP-100**) Certificate
- Microsoft Certified: Azure AI Fundamentals (**Microsoft AI-900**) Certificate
- Oracle Cloud Infrastructure 2024 **Generative AI Certified Professional** Certificate
- Oracle AI Vector Search Certified Professional Certificate
- Salesforce Certified AI Associate Certificate
- Google **Cloud Computing Foundations Program** Certificate
- Oracle Fusion Cloud Applications **ERP Certified Foundations Associate** Certificate

Relevant Coursework

- DSA
- OOP
- Machine learning
- Operating System
- Database management
- Software Engineering
- Compiler Design
- Computer Networks

Leadership / Extracurricular

- Technical Lead at **IoTHINC, VIT Chennai** [Sep 2022 - Sep 2024]
- Technical Team Member at **IEEE Photonics Society Student Chapter, VIT Chennai** [Oct 2022 - Oct 2023] Certificate