Subhranil Dutta

Nadia, West Bengal
+91-8927750391 | 32subhranil@gmail.com | Linkedin | Github | LeetCode | GeeksforGeeks

EDUCATION

VIT Bhopal University, Sehore **2022 – 2026**
B.Tech - Computer Science and Engineering - ***CGPA - 8.03*** *Sehore, Madhya Pradesh*

EXPERIENCE

Intern at VIGYAM GBK **February 2025 - Present**
Role - Cloud Developer Intern *Sehore, Madhya Pradesh*

- Writing, testing, and debugging cloud-based applications.
- Engineered a serverless data pipeline using AWS Lambda and Step Functions to automate data processing, reducing manual effort and saving approximately 10 hours per week.
- Collaborating to optimize performance and security in cloud environments.

PROJECTS

IoT-Based Home Automation System | NodeMCU, Relays, Blynk **October 2023**

- Developed a cost-effective IoT-based Home Automation System using NodeMCU.
- Enabled wireless control of household appliances via smartphones and cloud communication.
- Implemented remote access and automation based on ambient conditions.
- Designed a user-friendly Android interface for seamless control.
- Focused on ease of installation and accessibility for elderly and disabled users.
- Enhanced the smart home experience with real-time automation and monitoring.

Cloud-Based Water Quality Monitoring System | Arduino, HTTP/MQTT protocols **June 2024**

- Enhanced an IoT and cloud-based Water Quality Index (WQI) device for real-time water monitoring.
- Integrated advanced sensors to measure pH, temperature, dissolved oxygen, and pollutants.
- Developed a secure data transfer mechanism and integrated cloud-based analytical models to enable real-time monitoring and informed decision-making.
- Planned a scalable and cost-effective solution for agriculture, industry, and public health.
- Contributed to sustainable environmental conservation and improved water quality management.

Derma Vet AI – AI-Powered Veterinary Skin Disease Diagnosis | Python **Dec 2024 - Present**

- Expanded an AI-based diagnostic system for identifying and classifying animal skin diseases using deep learning.
- Engineered species-specific machine learning models to enhance accuracy across various animal types.
- Created a user-friendly web platform enabling seamless image uploads for instant disease prediction.
- Deployed cloud-based infrastructure for secure data processing and real-time analysis.
- Optimized model performance with transfer learning, data augmentation, and species-specific fine-tuning.
- Ensured scalability and accessibility for veterinarians, pet owners, and researchers.

TECHNICAL SKILLS

Languages: Python, C++, Java, JavaScript, SQL
Technologies/Frameworks: HTML5, CSS3, React, MongoDB, Express, Javascript, Bootstrap
Developer Tools: VS Code, PyCharm, IntelliJ, Canva

CERTIFICATIONS

- HTML, CSS, JavaScript for Web Developers - Johns Hopkins University
- 0-100 Full Stack Web Development Course - 100xdevs Cohort

EXTRACURRICULAR

- NSS Member since 2022