SHALEEN CHAKRABORTY

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Education

Bharati Vidyapeeth (Deemed to be University) College of Engineering — **Pune, Maharashtra**
Bachelor of Technology (B. Tech) in Electronics and Communication — **Oct 2022- June 2026**
GPA-8.84

Springfields College, Moradabad — **Moradabad, U.P.**
Indian School Certificate Examinations (ICSE) -STD X — **2020**
90.4%

AM World School, Chandausi — **Sambhal, U.P.**
Central Board for Secondary Education (CBSE) - STD XII — **2022**
88.4%

Skills

Programming Languages: Python, Java, C, Embedded C, MicroPython, Assembly Language, SQL, MATLAB
Technologies and Databases: HTML, CSS, JavaScript, MySQL, PostgreSQL, MongoDB, Gen AI, TensorFlow, Jupyter
Frameworks: Bootstrap (CSS), Springboot (Basics), Matplotlib
Tools: Arduino IDE, Keil, VS Code, Git, GitHub, IntelliJ, ThingSpeak (IoT),
Languages Known: English, Hindi, Bengali, Marathi

Experience

Intern | Indian Railways (On-site)

- Designed and deployed a full-stack employee portal independently for Indian Railways' Signal and Telecom Dept.
- Developed the backend using Google Sheets API and Spring Boot framework of Java with Google Analytics.
- The platform is actively used for data entry and departmental analytics.

Intern | Pantech Prolabs, Chennai (Remote)

- Designed and optimized embedded system circuits for IoT applications, improving processing efficiency by **5%** using optimized algorithms and components.
- Developed technologies for the CPU and peripherals of microcontrollers like devices based on ARM Cortex-7.

Joint Secretary | Art Circle-BVUCOEP

- Managed the coordination among all the Clubs (cultural and technical), Associations, and Committees of our annual techno-cultural fest, **Bharatiyam 2k25**.
- Led the Art Circle (Cultural Committee), which comprises **6** cultural societies of our college.

Certifications

Learn JAVA Programming- Beginner to Master — **Udemy**
Data Structures & Algorithms in Java — **Udemy**
Embedded System Design with C — **Pantech Prolabs**
AI Ladder: Deploying AI in your Enterprise — **IBM**

Achievements

Academic

- Secured **1st** position in the **Dept. of Electronics and Communication Engineering** consecutively for two semesters.

Research

- **Presented** a research paper ass the **only undergraduate student** at the **iDEAAS-2024 Conference** (Offline Mode) at **MAHSA University, Malaysia**, showcasing innovative synthesis in **Nanoelectronics**.
- Current work selected at **AMSCA-2025 Conference** (South Korea) at **Sungkyunkwan University, Seoul, South Korea,** on the implementation of Machine Learning in Nanotechnology.
- **Exploring AI deployment** to optimize **process parameters** in Nanostructure synthesis, enhancing efficiency and precision in material development. This is a multi-disciplinary study of Machine Learning with Nanotechnology.

Projects

- **Optimizing Electrospinning Parameters for various nanofibers** | Python, Machine Learning, NumPy, Matplotlib
  - Deploying Machine Learning models to predict the diameters of nanomaterials with an accuracy of 99.89% by training a huge dataset and choosing appropriate ML models.
  - It is efficient in nanomaterial synthesis by cutting the R&D time to less than 1%, avoiding trial and error.
- **Age and Gender Recognition System |** Python, TensorFlow, Jupyter
  - Developed an age and gender recognition system with an average efficiency of 92-95% with a response delay of just 2 seconds.
  - It can be used at various access and authentication mechanisms with real-time learning of the ML algorithm.