Arindam Pattanayak

Roll No.: 23ECB0B03
B.Tech
Electronics and Communication Engineering
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EDUCATION

•**National Institute of Technology, Warangal**	*2023 – 2027*
B.Tech in Electronics and Communication Engineering	CGPA: 8.89
•**National Institute of Technology, Warangal**	*2024 – 2027*
Minor Degree in Computer Science and Engineering	CGPA: 8.5
•**Haldia Govt. Sponsored Vivekananda Vidyabhawan**	*2020 – 2022*
West Bengal Council of Higher Secondary Education	Percentage: 95.2%
•**Vivekananda Mission Asram Sikshayatan**	*2019 – 2020*
West Bengal Board of Secondary Education	Percentage: 93.71%

PERSONAL PROJECTS

•**Distributor–Retailer Management System** ⌨   *June 2025 – July 2025*

Designed and implemented a relational database to manage distributors, retailers, purchases, and payments.
- **Tools & Technologies Used**: MySQL, RDBMS, Node.js, Express.js, React.js
- **Features**:
  – Built an **ER model**, database schemas, and a basic user interface.
  – Implemented purchase tracking, payment history, delivery status management, and **SQL-based analytics**.

•**CareerGrow – MERN Stack Job Portal** ⌨   *May 2025 – June 2025*

Built a full-stack job portal with job postings, applications, chat features, and skill-based job recommendations.
- **Tools & Technologies Used**: MongoDB Atlas, Express.js, React.js, Node.js, JWT, bcrypt, Nodemailer, Socket.IO, Tailwind CSS, Cloudinary, spaCy (Python NLP library)
- **Features**:
  – Implemented **JWT**-based authentication with **bcrypt** and secure password reset via **Nodemailer** and **crypto** tokens.
  – Built REST APIs for user, company, and job management (CRUD) and integrated them with frontend via Axios.
  – Enabled real-time messaging between recruiters and candidates using **Socket.IO**.
  – Integrated a resume parser and job recommender using **spaCy (Python)** with **90%** skill extraction accuracy.
  – Built an interactive UI with Tailwind CSS and handled image and resume uploads via **Cloudinary**.

•**Alphabet Recognition of American Sign Language** ⌨   *November 2024 – December 2024*

Developed a deep learning model for recognizing American Sign Language (ASL) alphabets.
- **Tools & Technologies Used**: Python, TensorFlow, Keras, OpenCV, MediaPipe, NumPy, Matplotlib
- **Features**:
  – Achieved **96.02%** test accuracy by training a **CNN** on a custom **ASL** dataset using data augmentation, dropout, and deep convolutional layers.
  – Developed real-time gesture prediction using **MediaPipe** (hand landmarks) and **OpenCV**.
  – Contributed to a related research paper published on **IEEE Xplore**: Research Paper Link ↗

TECHNICAL SKILLS AND INTERESTS

Languages: C++, Python, JavaScript, SQL
Web Development: HTML, CSS, React.js, Node.js, Express.js
Developer Tools: Git, GitHub, VS Code, Postman
Databases & Cloud: MongoDB, MySQL, Cloudinary

CS Fundamentals: DSA(C++), DBMS, OOP(C++), OS
Areas of Interest: Programming, Full-Stack Web Development, AI/ML
Soft Skills: Problem Solving, Team Collaboration, Time Management

POSITIONS OF RESPONSIBILITY

- **Executive Member:** Robotics Club, NIT Warangal   July 2024 – Present
  – Contributed to Technozion 2024 by defining design constraints and control parameters for a robotic arm.

- **Treasury and PR Team Member:** Team Avighna – Ganesh Chaturthi, NIT Warangal   July 2024 – Present
  – Effectively managed the event's social media account and coordinated fund collection (over 2.5 lakh).

ACHIEVEMENTS

- **Solved 450+ problems on LeetCode** to strengthen DSA and problem-solving skills (View LeetCode Profile)
- Secured **99.528 percentile** in **JEE Mains 2023** and a **General Merit Rank of 1158** in **WBJEE 2023**