Tuhina Chakravarti

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Portfolio: ttuhina.github.io | **GitHub:** ttuhina | **LinkedIn:** linkedin.com/in/tuhina-chakravarti-in

PROFESSIONAL EXPERIENCE

The Indian Express Online Media, Corporate Strategy Intern | **January 2025 – Present**
- Supporting the development of the Annual Operating Plan (AOP) by collecting, validating, and consolidating inputs across multiple business units for the upcoming financial year.

Celebal Technologies, Node.js Developer Intern (ttuhina.com/apture) | **June 2025 – Aug 2025**
- Built a full-stack appointment scheduling system with role-based access control, real-time notifications, and RESTful APIs using Node.js, Express and MySQL.

Syn Steel and Bearings Co., Full-Stack Web Developer Intern | **July 2024 – Aug 2024**
- Designed the company's official website (synsteel.in) with responsive design, achieving increased online presence and customer engagement

Celebal Technologies, Node.js Intern (ttuhina.com/potbot) | **June 2024 – Aug 2024**
- Built an intelligent conversational system using Microsoft Bot Framework, Node.js, Express.js, MySQL, and 12+ RESTful APIs

TECHNICAL PROJECTS & RESEARCH

Kinship Verification using Transformer Models (github.com/ttuhina/kinship-verification-with-swin-transformer)
- Designed a kinship verification system using Swin Transformer within a Siamese Network, achieving 96.33% accuracy on the KinFaceW-II dataset; Under review by Springer Nature Discover Computing journal

Assistive Navigation System | Patent published (Application number - 202511066901)
- Engineered IoT-based navigation hat for visually impaired using Raspberry Pi, ultrasonic sensors, and haptic feedback, with real-time obstacle detection algorithm with 95% accuracy in varied environments

Restaurant Management System (PotBot) (github.com/ttuhina/PotBot)
- Built full-stack ChatBot using Node.js, Express.js, and MySQL handling concurrent users with 15+ RESTful API endpoints for menu management and order processing workflows

SKILLS

Programming & Development: Python, Java, C, JavaScript, Git
Web & Backend Technologies: HTML, CSS, RESTful APIs
Data & Machine Learning: SQL, Machine Learning (Deep Learning, Transformers, Computer Vision)
Systems & Hardware: Arduino, Raspberry Pi

ACHIEVEMENTS & CERTIFICATIONS

Top 50 Teams, Smart India Hackathon 2025 | **September 2025**
- Ranked among top 50 teams out of 450+ teams from MUJ in the internal round of Smart India Hackathon 2025

Dean's List for Academic Excellence, MUJ | **May 2025**
- Felicitated by the Dean of Engineering for achieving the highest grade point average in Semester V, VI and VII.

Certifications, Cisco Networking Academy | **April 2025**
- Cybersecurity Essentials & Introduction to Cybersecurity, Python Essentials 1&2, CCNA (ITN, SRWE, ENSA)

Elite Rank in Design and Analysis of Algorithms, NPTEL | **October 2024**
- Secured above 60% and gained in-depth knowledge of algorithmic strategies, complexity analysis, and problem-solving in DAA

Top 20 Teams, Techno-Entrepreneurial Bootcamp, MUJ | **August 2024**
- Ranked among top 20 teams out of 200+ participants in business technology innovation challenge

LEADERSHIP & RESPONSIBILITIES

Oneiros'24, MUJ, Core Committee for Major Events | **Jan 2024 – Feb 2024**
- Orchestrated major events coordination managing 200+ team members and 8000+ attendees
- Delivered seamless execution of technical competitions and cultural programs within tight deadlines

ENACTUS Chapter, MUJ, Joint Head of Content | **July 2023 – April 2024**
- Led development of DHI mobile app and its content, empowering rural communities with government schemes and health resources

EDUCATION

Manipal University Jaipur, B.Tech Computer Science and Engineering (Honours in IoT & IS) | **Expected 2026**
- CGPA: 8.53/10 (Highest GPA: 10/10)
- **Relevant Coursework:** Digital Design and Computer Architecture, DSA, Machine Learning, Cryptography, Object Oriented Programming, RDBMS, OS, Computer Networks

Telangana State Board, Higher Secondary Education (XII) | **2022**
- Percentage: 90.4%

Army Public School, Sukna (CBSE), Secondary Education (X) | **2020**
- Percentage: 93.2%