MUGHILAN PAUL

73058 97367 | mughilan02@gmail.com
LinkedIn | GitHub

PROFILE

Pre-final year B. Tech Information Technology student with experience in building practical, user-focused software solutions. Strong communicator and collaborative problem-solver with leadership experience from college events and hackathon. Eager to learn and contribute to impactful technology projects.

TECHNICAL SKILLS

Programming Languages: Python, JavaScript, SQL, HTML, CSS
Tools/Frameworks: Flask, Git, GitHub, Unity, Blender, Firebase, Postman
Databases: MySQL, MongoDB, Oracle
Soft Skills: Problem-solving, Critical Thinking, Collaboration, Project Management, Communication
Languages: English, Tamil

PROJECTS

OD Processing System | MongoDB, React (Vite), Node.js, Express, Mongoose, Bcrypt, JWT
• Created a centralized On-Duty management platform used by students and faculty
• Implemented MongoDB schemas with Mongoose for request tracking and audit trails.

Personalized Study Planner | Python, Flask, HTML/CSS, React (Vite), Firebase, Machine Learning (Reinforcement Learning, k-Nearest Neighbour Algorithm), Gemini API
• Built an AI-powered academic assistant simulating query-response logic akin to customer service bots, using Gemini AI and FAISS.
• Developed Flask backend handling document upload, query input, and dynamic response generation.

Digital Twin Simulation for 5G Tower Placement | React (Vite), Python, Flask, SQLite, Mapbox
• Created an interactive 5G tower placement interface using Mapbox GL, improving spatial accuracy by filtering out invalid placements such as water bodies.

CERTIFICATIONS

• **Google Cloud Data Analytics** (ongoing)
• **C2 in Advanced Technical English – Cambridge** (2023)
• **Ethical Hacking – NPTEL** (2024)
• **Privacy & Security in Online Social Media – NPTEL** (2025)

EDUCATION

SSN College of Engineering, Chennai, India
B. Tech – Information Technology (2023–2027) | CGPA: 8.615
Relevant Coursework – Advanced Data Structures and Algorithms, Database Technology, Design Patterns, Data Communication and Networks

Mahindra World School, Chennai
Class 12 (2023) | 93%

LEADERSHIP AND ACHIEVEMENTS

• **Finalist, Smart India Hackathon 2024** – Software Edition (Grand Finale at Chandigarh Group of Colleges)
• **Core Member, Content Creation** – College English Literary Club
• **Core Member, Content and Event Planning** – College Humour Club
• **Editor** – Department Newsletter
• **Documentation Team** – SSN Lakshya (Entrepreneurial Development Cell)
• **Volunteer** – NSS and Scouts & Guides