

SHUBH RAI

Delhi Technological University (DTU)

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EDUCATION

Delhi Technological University (DTU), Delhi

Aug 2024 – Present

B.Tech, Information Technology

RESEARCH EXPERIENCE

Delhi Technological University (under Prof. Dr. Ankit Yadav)

- Developed a Deepfake Detection system using PyTorch and OpenCV — performed video frame extraction, facial feature preprocessing, and trained deep learning classifiers
- Built robust data collection, preprocessing, and annotation pipelines; evaluated AI/ML model performance using precision, recall, and F1 metrics while maintaining thorough research documentation

INTERSHIPS

Full Stack Developer Intern — Eythor Private Limited (under Naveen Kumar, Founder & CEO)

Jun 2026 – Present

- Integrating AI capabilities into the control software of a solar panel cleaning robot to enable automated decision-making and remote operation
- Designing scalable backend architectures for real-time data collection, handling continuous data streams between AI algorithms and robotic hardware

PROJECTS

Fake Job Posting Detector | Python, DistilBERT, Chrome Extension, Hugging Face

- Built a Chrome extension to detect fraudulent job listings on Indian platforms (Naukri, Internshala) using a fine-tuned DistilBERT model with 87% recall
- Deployed model publicly on Hugging Face for broader research access and integration

Solar Panel Lead Generation Agent | Python, Claude API, Google Sheets API, Selenium, BeautifulSoup

- Built an autonomous AI agent scraping IndiaMART, JustDial, and Google Alerts every 6 hours to discover solar panel cleaning leads across India
- Integrated Claude AI to score/qualify leads and auto-save contact info to Google Sheets, handling complex data flows with zero manual intervention

Eythor – Robot Management Web App | React, Node.js, Tailwind CSS, Vercel

- Built a full-stack web application for the Eythor robot platform to visualize real-time cleaning metrics and manage autonomous scheduling
- Designed a responsive dashboard to track hardware diagnostics and robot deployment efficiency, integrated with the backend AI systems

TECHNICAL SKILLS

Languages: Python, C++, C, Java, SQL

Web: HTML, CSS, React, TypeScript, Tailwind CSS

ML / AI / Data: PyTorch, TensorFlow, OpenCV, Scikit-learn, DistilBERT, Data Analytics, Data Preprocessing, Data Handling

Tools: Git, PostgreSQL, Supabase, Vercel, Hugging Face, PythonAnywhere