

EDUCATION

- **Indian Institute of Technology Delhi** New Delhi, India
Bachelor of Technology in Production and Industrial Engineering Nov. 2021 – May. 2025

SKILLS

- **Languages:** Javascript, C++, Python, SQL, TypeScript, Latex
Backend: NodeJs, Docker, AWS
Database: Postgres
Tools: Pg Admin, VS code, Overleaf

EXPERIENCE

- **Mekuva Technologies Private Ltd** Hyderabad, Telangana
Software Engineer May 2024 - July 2024
 - **Machine Learning:** Developed a **YOLOv5** based 3D printing error detection model (90%+ accuracy) and integrated it with a **Flutter app** for real-time monitoring. Designed a **C++** based tracking system for sheet metal punching (Makerbase board, Arduino IDE) with a limit switch for precise motion tracking.
 - **Web Development:** Revamped the company website's gallery section and optimized SEO for better visibility. Automated NDA signing and customer quote generation using **React, TypeScript**.
 - **Skills:** Python, YOLOv5, Flutter, C++, React, TypeScript
- **SuperTranslate.ai** Hyderabad, Telangana
Software Engineer Dec 2023 - Jan 2024
 - **Chess Analysis Platform:** Developed a chess analysis platform with **Python** and open-source engines (Stockfish, Komodo); **Dockerized** for deployment. Created an audio translation tool using **OpenAI's Whisper** for multilingual audio detection and translation.
 - **Skills:** Python, Docker

PROJECTS

- **Dimension Measurement and Defect Detection System:**
 - **YOLOv8** based defect detection & 3D dimension measurement achieving 92% accuracy using **OpenCV**.
 - Designed a UI using **HTML, CSS & JavaScript** for visualization and user interaction.
 - **Tools & Technologies:** Python, MS Excel, Raspberry Pi
- **Bank Statement Analyser**
 - **Microservice Architecture** – Built separate services for data extraction and expense analysis.
 - Bank Statement Processing – Extracted and stored transaction data in **PostgreSQL** for different banks.
 - AI-Powered Analysis – Used an **NLP model** to categorize expenses and provide insights on **CIBIL score and loan eligibility**.
 - **Tools & Technologies:** NodeJs, JavaScript, SQL, Pg Admin, Postman, Gemini
- **Library Management System**
 - Developed **RESTful APIs** – Implemented JWT authentication, user management, book management, borrowing system, and fine calculation.
 - Secure & Scalable Backend – Integrated password protection and role-based access control.
 - Database Management – Used **MySQL & PostgreSQL** for efficient data handling.
 - **Tools & Technologies:** NodeJs, JavaScript, SQL, Pg Admin, Postman