

## SURAJ KUMAR PANDEY

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### Profile Summary

Results-driven Full Stack Developer with expertise in MERN Stack, Django, and PostgreSQL. Skilled in designing scalable, secure web applications and integrating AI/ML-driven features. Proficient in API design, database optimization, and deployment workflow.

### Technical Skills

Programming: Python

Frameworks: Django

Databases: PostgreSQL, SQLite

Tools: Docker, Git/GitHub, Linux (Ubuntu, Raspbian)

AI/ML: CRNN, Transformers, Anomaly Detection, Hugging Face

### Education

B.Tech, Computer Science Engineering – Kanpur Institute of Technology (2022–2025)

**CGPA: 7.89 (First Division with Distinction)**

Diploma, Computer Science Engineering – BTEUP (2019–2022)

**Percentage: 76%**

### Work Experience

**Software Engineer Intern -**

**Nitrodyamics Aerospace and Defense Pvt. Ltd. ,IIT Kanpur      APR 2025 – Present**

Developed and deployed Nitrodyamics Task Management System (NTMS) with RBAC, Docker, and PostgreSQL.

### Key Projects

**Underwater Domain Awareness (ML Project):** ML pipeline using CRNN/Transformers for sound classification and anomaly detection.

**NTMS (Nitrodyamics Task Management System):** Role-based access control, Dockerized deployment, PostgreSQL database, and React.js frontend.

**AI-Powered Personal Finance Tracker:** Expense tracking and budgeting using Django and OpenAI API

### Core Strengths

- ✓ Full Stack Web Development(Backend from Django)
- ✓ Database Design & Optimization (PostgreSQL, SQLite)
- ✓ AI/ML Model Development & Deployment
- ✓ Linux System Debugging & Networking