**SOHAM J SURYAWANSHI**

Software Developer

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**EXPERIENCE**

# Deep Learning Titans Pune, IND

## AI Engineer | Research Intern

(August 2025 - Ongoing)

* Improved model inference speed by 30% using state-of-the-art deep learning models.
* Maintained 95% model accuracy while **optimizing performance**.
* Automated **data processing** with AI workflows, reducing manual effort by 60%.
* Guided strategy for 5+ AI projects by **benchmarking** model performance.
* Boosted operational efficiency by 25% through ML **model integration**.

# hackNcrafts Pune, IND

## Full Stack Developer Intern

(June 2025 -July 2025)

* Delivered 3 full-stack websites for diverse clients using the MERN stack.
* Led backend development for the Meetocure healthcare application.
* Built a scalable RESTful API to handle over 10,000 patient data entries.
* Increased user engagement by 40% with real-time WebSocket features.
* Improved application performance by 50% by optimizing database queries.

HACKATHON EXPERIENCE

# IEEE CodeClash International Hackathon | 3rd Place Winner

## Machine Learning and Artificial Intelligence

(March 2025)

* Developed machine learning models for real-time collision detection in foggy weather.
* Achieved 85%+ accuracy using a dataset of over 500,000 data points.
* Secured 3rd place among 800 global teams.
* Earned a $200 cash prize for innovation in road safety technology.

# NST & Blinkit Hackathon Teckron | Top 16 Finalist

## Smart Automation and Technology

(March 2025)

* Developed a waste management automation web app for dark stores.
* Utilized Machine Learning & AI to optimize waste segregation, enhancing efficiency by 60%.
* Secured a Top 16 finalist position among 150+ teams.
* Built a scalable website infrastructure that processed 10,000+ data points for real-time waste categorization

**PROJECTS**

# Autonomous multi-Agent RL Simulator |Python, PyTorch, Reinforcement Learning, OpenAI Gym

* Developed a multi-agent RL simulation **to train agents** in collaborative tasks.
* Improved collaborative task completion **by 70% using** advanced RL techniques.
* Implemented a custom **Greedy algorithm**, cutting agent decision-making time by 40%.
* Analysed 1M+ data points to **optimize rewards**, boosting simulation efficiency by 25%.

# HealthCare Monitoring System for Rural Areas | React, Node.js, MongoDB, Express.js, GraphQL

* Architected a full-stack rural healthcare platform supporting **over 5,000 concurrent users**.
* Developed **interactive Tableau & Power BI** dashboards to visualize complex patient data.
* Improved data integrity by cleaning and modeling over 500,000 data points.
* Cut data processing time by 35% and boosted reporting **accuracy by 20%** with new visualizations.

## AI Scheduling Assistant (AMD AI Hackathon)

* Built an agentic AI scheduler using **Python, Flask, and vLLM** to automate meetings via natural language.
* Created a secure REST API with Google Calendar and **OAuth 2.0** for multi-participant, timezone-aware scheduling.
* Developed intelligent conflict resolution algorithms to analyze calendars and suggest optimal meeting slots.
* Deployed LLMs on **AMD MI300 GPUs** to power an adaptive, autonomous scheduling agent.
* Delivered a full-stack AI solution at a competitive, invite-only AMD Hackathon focused on enterprise applications.

### SKILLS

* **Languages:** Proficient: C++, **Python** | Intermediate: React, JavaScript, NodeJS, Express
* **AI/ML:** PyTorch, **TensorFlow**, Scikit-learn, Hugging Face, Selenium, LLMs
* **Databases:** MongoDB Atlas, MySQL**, PostgreSQL**
* **DevOps & Tools:** Git, GitHub, CI/CD Pipelines, Tableau, Power BI
* **Problem Solving:** Data Structures, **Algorithms**, LeetCode, GeeksforGeeks

### COURSES

* **CS106A Programming** Methodologies from **Stanford University** Code in Place
* **Python** Programming from **Michigan** University
* **Machine Learning** Fundamentals from Coursera
* **Building AI Voice** Agents for Production from deeplearning.ai

### CO-CURRICULAR

* Global **Ambassado**r for Standford’s Code in Place
* Volunteer in Prayaas Youth Foundation

**EDUCATION**

# D Y Patil University School of Engineering & Technology, Pune 2022 - 2026

* Bachelor of Technology in Computer Engineering
* CGPA**: 9.40**/10.0 (6th Semester)
* Overall GPA**: 9.2**/10.0 (Up to 6th Semester)
* Relevant Coursework**:** **Machine Learning, Deep Learning**, Data Structures & Algorithms, C++, **Python**, Artificial Intelligence, Competitive Programming

# ASM’s Geetamata Junior College, Pune 2020 - 2022

* Completed HSC in Science Stream with **percentage of 70%**

# CMS English Medium Higher Secondary School, Pune 2019 - 2020

* Completed SSC with **percentage of 86%**