

SUDHANSHU SINGH

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EDUCATION

PES UNIVERSITY, Bangalore, India

September 2022 – May 2026

Bachelor of Technology in Computer Science and Engineering

Specialization: Computer Networks and Cybersecurity

Honors: CNR Rao Scholarship for academic excellence (GPA: 8.88/10)

SKILLS

Languages: Python, Java, C/C++, JavaScript, Golang, R

Frameworks & Libraries: Node.js, Angular, Scikit-learn, MongoDB, MySQL, Hadoop

Tools & Platforms: Git, GitHub, GitLab, Docker, Jenkins, VS Code, Postman

Technologies: REST APIs, NLP, Computer Vision, OCR, FastAPI, Streamlit

WORK EXPERIENCE

GrappITech, Bangalore, India

June 2024 – July 2024

Software Development Intern

- Led front-end development projects, significantly improving user interface and reducing load times by 20%, enhancing user retention on key financial platforms

PROJECTS

AI Resume Scanner for ATS Optimization (Java)

- Built an AI-powered Resume Scanner in Java to analyze resumes vs job descriptions with **>90% accuracy in keyword matching**.
- Engineered PDF parsing, skill/education/experience extraction, and **ATS-optimized recommendations using NLP techniques**.
- Delivered **detailed match scoring & compatibility reports** to enhance recruiter visibility; **tested on 100+ resume-JD pairs**.

K8s-Powered URL Shortener

- Architected a scalable URL shortener using **Docker, Kubernetes, and Redis** with full CI/CD pipeline via GitHub Actions.
- Implemented **HPA, Ingress, ConfigMaps & Secrets** for **autoscaling**, secure config management, and **seamless traffic routing**.
- Achieved **1000+ requests in 8 seconds (125+ RPS)** through stress-tested, load-balanced deployments with real-time monitoring.

AI-Powered Company News Sentiment Analyzer with Hindi TTS

- Built a real-time platform using **FastAPI & Streamlit** to analyze 10+ live news articles per company in <10 seconds.
- Engineered NLP pipelines for scraping, summarization, topic extraction & **sentiment scoring with 92% sentiment accuracy**.
- Integrated Hindi Text-to-Speech (TTS), automating reports & **reducing manual effort by 80%**.

Intelligent Portfolio Management System

- Built an AI-powered portfolio management system for investment optimization and risk analysis.
- Implemented predictive models using **ARIMA and Prophet** to forecast market trends.
- Designed dashboards using Plotly and ensured secure data storage with **PostgreSQL**.

AI-Driven UAV System for Smart Waste Management

- Building an autonomous UAV system with YOLOv8 for 90%+accuracy in 10+ waste categories, including e-waste.
- Implementing geo-tagging with <5m precision for automated illegal dumping alerts.
- Integrating NLP analytics to enhance community engagement through data-driven insights.

HONORS AND AWARDS

- CNR Rao Merit Scholarship (top 5% of batch) in all semesters
- Merit based tuition fee waiver in all semesters
- o.1 Certificate by CBSE (for being in the top 0.1% of the students)
- Class representative for the class of Computer Science in Junior Year
- District level Chess player
- State level Badminton player

ACTIVITIES

- Collaborated with a dynamic team to plan, execute and document the media coverage for MAAYA'23 an annual cultural fest. Contributed creative ideas to enhance the overall media presence, resulting in increased event attendance and online reach
- Successfully passed three classical music exams with distinction, demonstrating a high level of proficiency in harmonium playing and theoretical knowledge.