

Deepak Singh

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EDUCATION

Stevens Institute of Technology

Master of Science (M.S.) in Information Systems | GPA: 3.9

Hoboken, USA

Sep 2024 – May 2026

Relevant Coursework: AI for Software Engineering, Management of AI Technologies, Agile Methods for Software Development, Project Management, Data Analytics and Machine Learning, Big Data Management, Cyber Security Principles

Siddhartha Institute of Engineering and Technology

Bachelor of Technology (B.Tech.) in Computer Science

Hyderabad, India

Aug 2018 – Dec 2022

Relevant Coursework: Operating Systems, Data Structures and Algorithm, Artificial Intelligence, Computer Networks

TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript, Java, C++, C#, SQL, PHP

Frontend / Backend: Node.js, React.js, Electron FastAPI, Redux, GraphQL, REST APIs, Figma

AI & ML: LangChain, Hugging Face, TensorFlow, PyTorch, Scikit-learn, LSTM, NLP, Prompt Engineering, LLMs, Agentic Workflows

Data & Cloud: PostgreSQL, MongoDB, Redis, Kafka, Airflow, Spark, AWS (EC2/S3/Lambda), GCP, Docker, Kubernetes, Jenkins, Terraform, CI/CD, Git, Agile/Scrum

WORK EXPERIENCE

Software Development Engineer

Robospace Robotics and Automation Pvt Ltd

Oct 2023 – Jul 2024

Hyderabad, India

- Architected a full-stack Enterprise Resource Planning (ERP) system with a no-code component dashboard for production monitoring and logistics analytics, boosting operational efficiency by **5x**.
- Developed a multi-platform factory monitoring suite web app, Android app and HMI device interface running on Linux, using high-volume Redis pipelines for live scheduling, reducing production downtime by 30%.
- Engineered navigation system and UI for an autonomous material-transport robot in **Python** using Redis pub/sub and shell scripting for real-time path planning across a 10,000 sq ft facility.
- Deployed containerized microservices via **Docker** with CI/CD pipelines in Jenkins and Selenium test automation, improving release efficiency by **15%**.

Associate Software Developer

GKB Labs LLP

Jan 2023 – Sep 2023

Hyderabad, India

- Developed a Customer Relationship Management (CRM) system using **Laravel**, PHP, and **PostgreSQL** to automate 8 sales workflows, increasing team performance by **25%** and data retrieval speed by **40%**.
- Led Content Management System (CMS) database schema design and Agile/Scrum feature delivery across 3 cross-functional sprints, improving user engagement by **30%** and cutting operational costs by **20%**.

PROJECTS

Financial Data Explorer & Market Intelligence Platform | Python, LangChain, Hugging Face, spaCy

Sep 2025

- Built a Natural Language Processing (NLP)-powered research platform using **LangChain** and **Hugging Face** Transformers with Model Context Protocol (MCP) endpoints, processing **10K+ queries/day** for real-time financial data analysis.
- Implemented Isolation Forest anomaly detection on live streaming tick data, flagging **200+ anomalies/session** with sub-second latency and **94% precision**.

Automated ETL Data Pipeline with Orchestration | Python, Airflow, Spark, PostgreSQL

Aug 2025

- Designed an Extract-Transform-Load (ETL) pipeline with **Apache Airflow** DAGs and **Apache Spark** to ingest and load financial data into **AWS S3** and PostgreSQL, reducing manual wrangling time by **70%**.

Fraud Detection System & Real-Time Stock Price Forecasting | Python, FastAPI, XGBoost, LSTM

Dec 2024

- Engineered a fraud detection classifier using **Random Forest**, **XGBoost**, and Autoencoders achieving **96% F1-score**; deployed as a REST API via **FastAPI** and Docker for scalable real-time inference.
- Trained a Long Short-Term Memory (LSTM) stock forecasting model on live and historical market data achieving RMSE **17.77** and MAPE **1.91%**.

LEADERSHIP & ACTIVITIES

Stevens Graduate Technical Association

Vice President

Sep 2025 – May 2026

Hoboken, USA

- Organized hackathons, technical workshops and speaker sessions per semester.

Product Management Club

Volunteer

Jan 2025 – May 2025

Hoboken, USA

- Coordinated 4+ club events per semester on product strategy, roadmap planning, and cross-functional collaboration for 50+ members.