

# Deepak Singh

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## EDUCATION

### Stevens Institute of Technology

Master of Science - Information System

Coursework: Data Analytics, Machine Learning, Big Data Management, Financial Decision Making, Project Management

New York, USA

Expected Apr 2026

### WorldQuant University

Master of Science – Financial Engineering

Coursework: Financial Econometrics, Machine Learning in Finance, Portfolio Management, Risk Management

New Orleans, USA

Expected Dec 2026

### Siddhartha Institute of Engineering and Technology

Bachelor of Technology - Computer Science

Coursework: Probability, Statistical Modeling, Linear Algebra, Operating Systems, Distributed Systems, Cloud Computing

Hyderabad, India

Aug 2018 – Dec 2022

## SKILLS

**Programming:** Python, Java, C++, JavaScript, Typescript, XML, Node.js, React.js, .Net, PHP, Bash Scripting, Linux

**Database:** Oracle, PostgreSQL, MongoDB, Redis, AWS S3, SQL, NoSQL, PL-SQL, SQL Server

**Software and Tools:** Power BI, MS Office, MQTT, Git, Dockers, Jira, Agile, Confluence, Selenium, Postman API, Zoho CRM

**Frameworks:** Angular, Django, Flask, React Native, Svelte, Spring, jQuery, Bootstrap, Tailwind CSS, REST APIs, Figma

**Machine Learning:** TensorFlow, PyTorch, scikit-learn, NumPy, Pandas, SciPy, Matplotlib, Linear Regression, Logistic Regression

**Relevant Coursework:** Artificial Intelligence, Product Management, Computer Networks, Business Economics and Financial Analysis, Data Visualization

## EXPERIENCE

### Robotspace Robotics and Automation Private Limited

Software Development Engineer

Hyderabad, India

Oct 2023 – Jul 2024

- Developed an ERP system to streamline communication between machines, robotics arms and operators by using React.js, Node.js, JavaScript, MySQL in docker environment, resulting in a 30% reduction in production downtime and a 5x increase in operational efficiency
- Designed dashboards and interactive interfaces for mobile-based production scheduling by developing an Android app using Java in Android Studio, integrating AWS for cloud connectivity and UART for firmware device communication
- Engineered the navigation system for the Scoot project-a robot used to move materials. Implemented planning, scheduling solutions using Python, establishing seamless communication via MQTT servers
- Implemented CI/CD pipelines for Agile deployments, optimizing delivery cycles and ensuring faster time-to-market, which resulted in a 15% boost in project delivery efficiency

### GKB Labs LLP

Associate Software Developer

Hyderabad, India

Jan 2023 – Sep 2023

- Developed a customizable CRM tool (**Rep Donkey**) to automate and enhance sales workflows using JavaScript, PHP, MySQL, and PostgreSQL, leading to a 25% increase in sales team productivity
- Led the planning and implementation of tailored designs and functionalities for diverse client needs. Collaborated with cross-functional teams including Designers and Product Managers to enhance the project's CRM tool functionality which improved user engagement by 30%
- Managed cloud operations and executed database optimization strategies using PHP and SQL, resulting in a 40% improvement in data retrieval times
- Optimized inventory and sales processes for clients by leveraging data insights and automation, achieving a 20% reduction in operational costs and enhancing decision-making capabilities

## PROJECTS

### Real-Time Stock Price Forecasting Using LSTM

- Built an LSTM-based model to predict real-time stock prices for MAANG companies using historical and live data via the Yahoo Finance API
- Achieved high accuracy with RMSE of 17.77 and MAPE of 1.91%, providing dynamic insights for decision-making

### Secure Cyber-Physical System Manager

- Engineered a robust authentication process utilizing advanced neural network techniques, which processed over 1,000 simultaneous user requests without compromising data integrity or accessibility in the cyber-physical management system.
- Built task management and data visualization tools using Python, MySQL, HTML, and JavaScript to enhance operational oversight

## CERTIFICATES

Oracle Database: Program with PL/SQL, MySQL, DevOps: Docker, Jenkins, Kubernetes, C, C++, Cyber Security (Training Program) From AICTE. | Introduction to Data Science (IBM)