

# Sanjay Uppala

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## EDUCATION

### Depaul University

Master's in Data Science

Chicago, US  
August 2023- May 2025

### Sree Vidyanikethan Engineering College

Bachelor of Technology in Computer Science and Systems Engineering

Tirupati, India  
June 2018- May 2022

## TECHNICAL SKILLS

**Programming & Databases :** Java, Python, C, R, MySQL, SQL, Oracle

**Web Technologies :** TypeScript, JavaScript, Angular, AngularJS, VueJS, HTML, CSS, Spring Boot, Spring

**Full-Stack Development & DevOps :** Full-Stack Development, CI/CD Pipelines, GitHub Actions, Azure DevOps

**Database & Query Optimization :** SQL, ETL Pipelines, Data Warehousing, Relational & Non-Relational Databases (Oracle, PostgreSQL)

**Machine Learning & Predictive Modeling :** Regression, Classification, Neural Networks, Recommender Systems.

**Data Visualization & Reporting :** Power BI, Tableau, Python (Matplotlib), Interactive Dashboards

**Software & Scripting :** Postman, GitHub, GitLab, VS Code, RESTful APIs, Automation Scripting

## PROFESSIONAL EXPERIENCE

### Innova Solution, Associate Software Engineer

Jul 2021 – Aug 2023 | Hyderabad, India

- Developed dynamic and reusable AngularJS components, reducing development time for future modules by 25%.
- Designed and implemented backend API calls using Spring Boot, ensuring seamless integration and efficient data flow between systems.
- Optimized SQL queries for data retrieval, improving query performance by 20% and reducing database response times.
- Implemented lazy loading and modularized front-end assets, reducing website load times by 30% and enhancing user experience.
- Led junior trainees for a capstone project, conducting code reviews and mentoring on best practices in AngularJS and Spring Boot.
- Collaborated cross-functionally with designers, product owners, and backend teams to align project goals and deliverables.

### MyHealth1st, Front-End Developer

May 2022- Aug 2023

- Built an easy-to-use health platform where users could book appointments online through multiple channels (in-person, phone, or video).
- Used AngularJS, HTML, CSS, and JavaScript to create responsive and attractive designs.
- Worked with backend teams using Spring Boot APIs to integrate data seamlessly.
- Improved website speed by 20%, resulting in a 15% increase in user satisfaction.
- Worked in an Agile environment, participating in daily stand-ups, sprint planning, and retrospectives to deliver project milestones on time.
- Integrated Azure DevOps pipelines for continuous integration and deployment (CI/CD).

### Account Planning, Full Stack Developer

Jan 2022 – May 2022

- Developed a full-stack application for managing client data, enabling businesses to identify new opportunities.
- Built intuitive front-end interfaces using AngularJS, HTML, CSS, and JavaScript for a seamless user experience.
- Designed and implemented REST APIs and data connections using Java, Spring Boot, and MySQL, ensuring efficient backend operations.
- Integrated MVC architecture, facilitating smooth interaction between front-end and back-end components.
- Added interactive charts and tables for data visualization, improving decision-making efficiency by 25%.
- Managed project timelines and coordinated with stakeholders to deliver the MVP within deadlines.
- Used Jira and Confluence for project tracking, sprint planning, and documentation.
- Organized weekly stand-up meetings, aligning development goals with business objectives.

## ACADEMIC PROJECTS

### Customer Churn Prediction

- Built a machine learning model to predict customer churn, improving retention strategies by identifying at-risk customers.
- Preprocessed and cleaned Kaggle datasets, and implemented algorithms like Logistic Regression and Gradient Boosting with high recall metrics.
- Evaluated model performance using accuracy, precision, and recall to optimize predictions.

### Autonomous Driving with Deep Reinforcement Learning

- Built and trained RL agents (DQN, PPO, A2C) in *highway-env* to navigate complex driving scenarios like highways, intersections, and roundabouts.
- Tuned hyperparameters (y, learning rate) and evaluated agents using mean reward and success rate metrics.
- Achieved 100% success in highway tasks and strong performance in roundabouts using optimal configurations.
- Gained hands on experience with model stability, decision making under uncertainty, and policy learning in safety critical environments.