

# DEEPAK SINGH

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## Work Experience

Infosys, Bangalore

07/2022 - Present

*Specialist Programmer*

AMS Buddy Project (Generative AI)

### Overview:

- Directed the development of **AMS Buddy**, a cutting-edge generative AI solution automating business document creation from **T-SQL** stored procedures. Utilized **React** for frontend development and **Python** for backend operations to optimize user interactions and data processing efficiency.

### Key Responsibilities:

- Led **React** frontend development, achieving a remarkable **40%** reduction in frontend development time and enhancing user engagement metrics by **30%**.
- Engineered **Python** backend functionalities, including **T-SQL** to **PySpark** conversion and advanced chunking strategies, resulting in a **50%** decrease in processing time for large datasets.
- Implemented semantic search capabilities, indexing over **10,000** documents generated by **AMS Buddy**, and improving document retrieval efficiency by **25%**.
- Established and managed a comprehensive feedback loop with various units, resulting in a **20%** increase in user satisfaction scores and documentation quality ratings.

### VS Code Extension Development:

- Developed a **TypeScript**-based **VS Code** extension for semantic search, enhancing developer productivity by **30%** and enabling efficient code navigation within the IDE.

**Technologies Used:** React.js, JavaScript, HTML, CSS, Python, TypeScript, VS Code (Tools), Git

### Achievements:

- Streamlined document generation processes, leading to a remarkable **50%** reduction in both time and effort required for document creation tasks.
- Revolutionized document generation process by implementing innovative token chunking strategies, eliminating token limit constraints, and ensuring seamless operations, resulting in a **40%** increase in productivity and **60%** reduction in errors.

Citymall, Gurugram

01/2022 - 05/2022

*Frontend Developer (Internship)*

### Citymall Leader App:

- Executed shop performance feature, resulting in a **15% increase** in seller retention rates, and observed subsequent improvement of **15%**.
- Introduced the self-deactivation feature, achieving a **30% reduction** in customer service inquiries related to account deactivation, thus enhancing operational efficiency and customer satisfaction.
- Self deactivation initiative led to an estimated **20 hours** of saved customer support time per week.
- Technologies Used:** React Native, Redux, React-Hooks, JavaScript, HTML, CSS, VS Code (Tools), Git

## SKILLS

**Languages:** C/C++, JavaScript, Python

**Technologies/Frameworks:** React, Redux, React Hooks, Bootstrap, HTML5, CSS3, NodeJS, Express, MongoDB

**Developer Tools:** React Developer Tools, VS Code, Sublime Text

**Other:** RESTful APIs, Agile Methodology, OOPS, Unit Testing, Continuous Integration/Continuous Deployment (CI/CD), Communication, Teamwork

## EDUCATION

National Institutes of Technology, Jamshedpur

07/2018 – 05/2022

*MCA - Master of Computer Application - CGPA - 8.5*

## PROJECTS

**TradeJunction - Ecommerce** 🗄 | [MERN Fullstack](#)

04/2023 - 06/2023

- Orchestrated the development of a comprehensive project suite comprising **Admin**, **Seller**, and **User** modules, each equipped with customized dashboards for efficient **CRUD operations** on **products**, **events**, and **coupons**.
- Technology Used** - React, React Hooks, React-Redux, Tailwind CSS, Node.js, Express.js, and MongoDB.

**StoryVista** 🗄 | [MERN Fullstack](#)

03/2023 - 04/2023

- Pioneered the implementation of **JWT-based authentication** to optimize user registration processes, enabling users to independently manage and delete stories; introduced a **liking system feature**, leading in a significant boost to user engagement by **30%** and interactions by **40%**.
- Technology Used** - React CSS, Node.js, Express.js, and MongoDB.