

# V Vamshi Raj

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## Skills

**Languages:** Python, SQL, JavaScript

**Libraries:** NumPy, Pandas, Matplotlib, Seaborn.

**Frontend:** React js, Tailwind CSS, HTML5, CSS.

**Backend:** Django, Node.js, Express.js, REST API.

**Databases:** MySQL, MongoDB.

**Tools:** Microsoft Visual Studio, Jupyter Notebook, Git, Github, Linux.

## Experience

**MERN stack Intern, EYGDS AICTE**

Feb 2025 – Mar 2025

- Developed a full-stack recipe-sharing web application with features to add, update, delete, and view recipes.
- Integrated user authentication using JWT allows secure access to recipe management and log-in functionality.
- Designed a dynamic search feature that enables users to search for recipes by title and ingredients.
- Built a responsive and intuitive user interface with React and Bootstrap, enhancing the device user experience.
- Used Express.js and MongoDB to efficiently manage and serve recipe data with optimized server-side performance.
- Implemented error-handling mechanisms for invalid inputs and API failures, ensuring smooth user interaction.

**Data Analysis Intern, Cognifyz Technologies**

Sep 2024 – Oct 2024

- Conducted a comprehensive data analysis to obtain significant insights using MySQL, Python, and Microsoft Excel.
- Refined data by organizing and eliminating null values.
- Processed data using NumPy and Pandas.
- Formulated SQL queries to retrieve complex data for statistical analysis.
- Leveraged Python libraries such as NumPy and Pandas for data analysis and Matplotlib and Seaborn for data visualization.

## Education

**GITAM University, Hyderabad, B.Tech in Electronics and Communication with(AIML)**

Sep 2020 – Apr 2024

**Coursework:** DSA, OOPs, DBMS, Python, Machine Learning, Artificial Intelligence, Big Data.

GPA: 8.75/10

## Projects

**Portfolio (React.js, Tailwind CSS)** [🔗](#)

Jan 2025

- Developed a responsive and user-interactive Portfolio website using React JS and Tailwind CSS.
- Incorporated smooth navigation and reusable components.

**Weather App (Python, Django, HTML, CSS, BootStrap)** [🔗](#)

Nov 2024 – Dec 2024

- Built a weather application providing real-time forecasts through the OpenWeather API, supporting over 1000 city searches.
- Integrated a city-based search feature to display live weather details, including temperature, humidity, wind speed, and conditions.
- Created a responsive UI with Bootstrap and CSS, for an intuitive user experience .
- Implemented efficient Django solutions for precise handling of complex API requests and effective content delivery mechanisms.
- Integrated error-handling mechanisms to manage invalid inputs for improved user interaction.

**Planit (HTML, CSS, JavaScript)** [🔗](#)

Aug 2024

- Developed the Planit app, a task manager with an intuitive interface, achieving a 98% completion rate during testing.

**Enhancing Security in Wireless Sensor Networks through Machine Learning against DoS attacks** [🔗](#)

Nov 2023 – Apr 2024

- Evaluated Decision Trees (DT), Random Forest (RF), and XGBoost models for detecting DoS attacks.
- Applied data balancing techniques, boosting detection precision by 7%, 4%, and 5% across models.
- Tested the models on a secondary dataset, enhancing reliability by 10%.
- Built a Flask-based front-end with HTML & CSS for smooth ML model interaction, utilized by over 50 testers.

## Certifications

Data Analysis with Python - IBM [🔗](#)

Introduction to Information Technology and AWS Cloud [🔗](#)