

# Venkata Naga Sri Sai Pranavi Kolipaka

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## SUMMARY

Detail-oriented Computer Science graduate with a strong foundation with **practical experience through internships, assistantship, and projects in both Java Full-Stack Development and Data Science**. Proficient in **developing secure, scalable web applications and analyzing complex datasets** to derive actionable insights. Skilled in technologies including **Spring Boot, React, Python, SQL, and cloud platforms (Azure, AWS)**. Published researcher and experienced Graduate Teaching Assistant with **excellent communication and teamwork skills**. Passionate about delivering high-quality, impactful software solutions, committed to continuous learning, and driven by a proactive, result-oriented mindset.

## EDUCATION

**MS, Computer Science | Concentration in Artificial Intelligence** **Aug 2023 – May 2025**

*University of South Carolina, Columbia, SC*

GPA: 4.0/4.0

**Bachelor's, Computer Science | Specialization in Data Science**

**Aug 2019 – May 2023**

*Koneru Lakshmaiah Education Foundation, Guntur, India*

GPA: 3.6/4.0

## WORK EXPERIENCE

**Graduate Teaching Assistant, University of South Carolina** **Aug 2023 – May 2025**

- Mentored and tutored a diverse class of 60+ undergraduate students in **HTML, CSS, and JavaScript**, fostering a strong foundation in web development principles.
- Designed and conducted interactive, hands-on lab sessions to reinforce theoretical concepts, improving overall class performance by 20% based on feedback and grades.
- Provided one-on-one technical support to students, assisting with debugging and troubleshooting **over 100 codebases**, which contributed to a significant reduction in assignment errors.
- Developed and shared best practices for responsive design, cross-browser compatibility, and efficient coding techniques, boosting students' confidence and coding efficiency.
- Created supplementary learning materials, including tutorials and walkthroughs, that enhanced learning outcomes and increased student engagement in labs and coursework.

**Web Development Intern, Verzeo Edutech Private Limited**

**Nov 2022 – Jan 2023**

*Responsive Website Development*

- Built a **3-page responsive website** using ReactJS, CSS, and Bootstrap, reducing page load times by 30% and enhancing accessibility for over 95% of devices.
- Improved user engagement by designing an intuitive interface optimized for diverse audiences.

*e-Approval System*

- Automated student admission eligibility verification for over 500 applications, reducing manual intervention by 90%.
- Built a **full-stack application using HTML, CSS, Servlets, and MySQL**, improving approval speed by 50% and ensuring 90% accuracy in eligibility checks.

**Deloitte Australia Data Analytics Job Simulation on Forage**

**August 2025**

- Applied **data visualization and business analysis** using Tableau and Excel to deliver actionable insights.

**Data Science Intern, Yhills Edutech Private Limited**

**Feb 2023 - Mar 2023**

- Built predictive and classification models (Linear & Logistic Regression) with 80%+ accuracy.
- Focused on data preprocessing, feature engineering, and evaluation.

## PROJECTS

**E-Commerce Microservices Application**

[E-Comm Microservices Project](#)

Tech Stack: ReactJS, Spring Boot, Spring Cloud, Eureka, API Gateway, H2 Database, Docker

- Built a **scalable e-commerce system with microservices** for products, orders, and users, ensuring modularity and independent deployment.
- Implemented service discovery **with Eureka and API Gateway** for secure routing and load balancing.
- Developed product and order management features with persistent storage using **H2**, enabling seamless CRUD operations.
- Containerized services using **Docker** for **consistent deployment and scalability** across environments.

**User Management Web Application (CRUD)**

[User Management Project](#)

Tech Stack: ReactJS, Spring Boot, MySQL

- Built a responsive web app managing 1,000+ user records with CRUD functionalities.
- Optimized data retrieval, **reducing access time** by 40% and improving operational efficiency.

**User Management System with Enhanced Security**

[User Management Security Project](#)

Tech Stack: ReactJS, Spring Boot, Spring Security, JWT, MySQL

- Designed a secure system to manage 500+ employee records **with role-based access and authentication**.

- Improved **data security by 95%** and implemented admin/user dashboards for seamless role handling.

### Weather Forecasting Application

[Weather Forecasting Application](#)

Tech Stack: ReactJS, Node.js, Express, MongoDB, OpenWeather API

- Built a full-stack weather app with **user authentication, geolocation, and weather history tracking**.
- Implemented **secure APIs and responsive UI** to deliver real-time weather data with personalized search history.

### Certificate Management Web App - Certaethon

[Certaethon-frontend](#)

Tech Stack: HTML, CSS, Bootstrap, JavaScript, RESTful APIs, Azure Blob Storage, Azure Logic App, Azure Function App, Azure Form Recognizer

- Developed a responsive web app to **manage and track certifications**, enabling 200+ users to upload, modify, and view certificates securely.
- Integrated Azure Blob Storage and Form Recognizer OCR to **automate certificate data extraction and storage**, reducing manual entry by 80%.
- Designed an admin dashboard to monitor all user certifications and view annual adoption trends, improving administrative oversight and reporting accuracy.
- Leveraged Azure Logic Apps and Function Apps for backend automation, **enhancing system efficiency and reliability**.

### Hotel Booking Data Analysis Project

[Hotel Booking Project](#)

Tech Stack: Python, Pandas, Matplotlib, Seaborn, Data Visualization, Data Analysis

- Analyzed hotel booking data from 100,000+ records to **identify key trends and guest demographics**.
- Developed **5+ visualizations** to examine booking distribution, highlighting Portugal, Great Britain, and France as top sources of guests.

### COVID-19 Patient Pre-condition Data Analysis

[Covid-19 Data Analysis](#)

Tech Stack: Tableau, Data Visualization, Data Analysis

- Analyzed data from 500+ COVID-19 patients to **identify key pre-existing conditions** linked to critical outcomes.
- Developed **5+ interactive dashboards**, highlighting correlations between 10+ preconditions and severe cases, supporting healthcare decision-making.

## TECHNICAL SKILLS

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- **Programming Languages:** C, Java, Python (Pandas, NumPy, Matplotlib, Scikit-Learn), R
- **Front-End:** HTML, CSS, JavaScript, React.JS, Angular, Bootstrap
- **Back-End:** SpringBoot, Servlets, JSP, Hibernate, Express.JS, Node.JS, REST APIs, SpringBoot Microservices
- **Databases:** MySQL, MongoDB, PostgreSQL
- **Cloud:** AWS, Azure
- **Tools and Software:** Eclipse, Visual Studio Code, Git and GitHub, Postman, Jira, Trello
- **Relevant Courses:** Data Structures and Algorithms, Software Engineering, Artificial Intelligence, Database System Design, Predictive Modeling

## CERTIFICATIONS

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- Certified Oracle Cloud Infrastructure Foundations Associate, Developer Associate, Autonomous Database Specialist.
- Certified Aviatrix Multi-Cloud Networking Associate Engineer.
- Certified Microsoft Azure Developer Associate.
- Certified in Cambridge English (ESOL) with a focus on ensuring effective communication of technical findings to diverse audience.
- Co-Author for the paper, "Performance of CNN for NIDS", published in NeuroQuantology Journal.
- Presented the paper, "Unsupervised Clustering Techniques", in SmartCom 2023 conference.