

## VENKATA KRISHNA POKALA

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### EDUCATION

- **MASTER OF SCIENCE** Computer Science, University of South Florida, Tampa, FL | **GPA-3.85** Aug' 2023 – May' 2025
- **BACHELOR OF TECHNOLOGY** Computer Science, Vignan University, India | **GPA-9.4** June' 2018 – Sep' 2022
- **RELATED TECHNOLOGY:** Advanced Data Structures and Algorithms, Object Oriented Programming, Advanced Computer Architecture, Computer Networking, Data Mining, Software Verification Validation and Testing, Database Management System, Operating Systems, Mobile Systems, Data Science for Software Engineers, Machine Learning.

### WORK EXPERIENCE

#### Software Engineer (Full Stack-DSE), Infosys, Hyderabad, India

Jun' 2022 – Jul' 2023

- Spearheaded the development of full-stack applications using advanced Java 8 features, Spring Boot for robust back-end services, and ReactJS for dynamic front-end interfaces.
- Architected microservices solutions on AWS, integrating SOAP web services for seamless data exchange and utilizing Splunk for real-time monitoring, resulting in a 40% improvement in scalability and performance.
- Enhanced code quality by incorporating Swagger for API documentation and adhering to SDLC principles.

#### Data Science, Verzeo, India

Jan' 2021 – Dec' 2021

- Performed data preprocessing and analysis using Python, enhancing dataset accuracy by 25% through advanced cleaning methods.
- Built machine learning models to predict customer churn, achieving a 15% improvement in prediction accuracy.
- Created interactive Tableau dashboards that streamlined stakeholder reporting, cutting reporting time by 30%.
- Crafted data-driven dashboards, reducing decision-making time for key stakeholders by 25%.
- Applied statistical techniques and machine learning to increase business outcomes by 15%.

### TECHNICAL SKILLS

- **Programming Languages:** Java, Python, C, C++, .NET/C# .
- **Web Development & Frameworks and Libraries:** HTML, CSS, JavaScript, RESTful APIs, Servlets, Spring, ReactJS.
- **Database Technologies:** SQL, MySQL, Data Pipelines (ETL).
- **Data Analysis and Engineering:** Data Cleaning, Statistical Analysis, Data Visualization (Tableau, Power BI), pandas, NumPy.
- **Automation Tools:** UiPath (Robotic Process Automation)
- **Machine Learning:** Regression, Classification, Clustering, Model Evaluation, Data Processing.
- **Software Development:** Object-Oriented Programming (OOP), Software Design, Debugging, Testing.
- **Other Skills:** Communication, Project Management, Leadership, Multitasking.

### ACADEMIC PROJECTS

#### Cloud Migration and Agile Development for E-Commerce Platform | Spring Boot, React

Jan' 2024 – May' 2024

- Migrated an on-premise e-commerce platform to a cloud-based microservices architecture using Spring Boot for the back end and HTML5 and CSS3 for the front end, enhancing scalability and improving performance by 30%.
- Collaborated in an Agile environment with Git for version control, delivering new features and streamlining deployments using Jenkins and Docker

#### Handwritten Digit Recognition Using Machine Learning | Machine Learning, Python, Numpy

Aug' 2023 – Jan' 2024

- Developed a Handwritten Digit Recognition system using a supervised machine learning model based on the distance-weighted KNN algorithm, achieving an accuracy of 95% on test data.
- Leveraged Python and NumPy to efficiently preprocess and analyze datasets, reducing computation time by 20% compared to standard implementations.
- Optimized the model for performance, enabling accurate recognition of handwritten digits with a prediction speed of <0.5 seconds per image.
- Demonstrated strong analytical and problem-solving skills by designing and fine-tuning the algorithm to handle noisy and varied input data effectively.

#### Online Hotel Reservation System | HTML, CSS, Javascript

Aug' 2021 – Jan' 2022

- Analyzed and implemented a responsive hotel booking platform, boosting user retention by 35% using HTML, CSS, and JavaScript
- Optimized the booking process with streamlined workflows, reducing booking time by **35%** and boosting user engagement by 30%.
- Ensured seamless multi-device functionality by employing advanced responsive design techniques, improving cross-platform user engagement by 40%

### RESEACH PAPER

- **Prediction of Breast Cancer, Comparative Review of Machine Learning Techniques and link:** Jan' 2022-Aug' 2022  
<https://www.irjet.net/archives/V9/i8/IRJET-V9I882.pdf>

### CERTIFICATIONS

- Microsoft Azure Data Engineer Associate ([DP-203](#)) .
- Earned a Python for Everybody certification from Michigan University (Coursera).