

Prashant Iyer

(945) 527-5695 | piyer@smu.edu | [LinkedIn](#) | [GitHub](#)

PROFESSIONAL EXPERIENCE

Michaels Stores, Intern, Irving, Texas

Jun 2024 – Aug 2024

- Implemented 15+ security patches, firewall rules and IAM/PAM role management in GCP, ensuring compliance, access control and improved accessibility for diverse user roles.
- Automated CI/CD pipelines on Jenkins, deploying centralized applications on GKE for improved scalability and reliability.
- Established 5 JIRA workflows to streamline task management and enhance work visibility.

Technologies and Tools: GCP, GKE, Jenkins, Grafana, Git, Jira, Agile Methodology.

Enquero – a Genpact company, Data Engineer, Bangalore, India

Sep 2020 – Jul 2023

- Developed reusable frameworks to automate data processing, validation, and visualization, reducing manual effort by 40%.
- Designed and implemented 10+ data pipelines using Python, Pyspark, SQL, and AWS, integrating PowerBI for reporting to improve data accessibility and reliability.
- Applied advanced ML/DL techniques for preprocessing and training 10+ production-grade models, optimizing system performance and generating insights that drove a 50% increase in process efficiency.
- Streamlined AWS data workflows, reducing storage and compute costs by 20% through improved ETL strategies and allocations.
- Collaborated with cross-functional teams and clients to gather requirements and deliver solutions aligned with business objectives.

Technologies and Tools: Python, PySpark, Pytest, SQL, AWS, PowerBI, BDP, SAP Hana, Git, JIRA, Agile Methodology.

Enquero – a Genpact company, Intern, Bangalore, India

Jan 2020 – Jun 2020

- Administered MySQL databases and business logic, improving query performance by 25%.
- Developed in-house Skill Management Tool, improving employee skill tracking, and boosting resource allocation efficiency by 30%.

Technologies and Tools: JavaScript, Node.js, SQL, Git, JIRA, Agile Methodology.

TECHNICAL SKILLS

Programming Languages: Python, SQL, PySpark, C, C++, JavaScript, Node.js, R, Java, HTML, CSS, Shell Scripting.

Databases and Data Handling: MySQL, MongoDB, PostgreSQL, Oracle DB, SAP HANA.

Tools and Platforms: Power BI, Databricks, Jenkins, Kubernetes, GitHub, Bitbucket, Eclipse, VS Code, Jupyter, EMR, Hadoop, JIRA.

Cloud Platforms: AWS, GCP.

ACADEMIC PROJECTS

Covid-19 Impact Analysis: [R, Git]

- Created 30+ visualizations and reports with 4 key recommendations through end-to-end analysis of COVID-19 data using EDA, clustering, and classification, tailored for Texas county administrators to reduce analysis time by 30%.

Architectural Design and Comparative Analysis: [JavaScript, Node.js, React.js, MySQL, Django, HTML, CSS, Git]

- Engineered food ordering applications using Layered and Client-Server architectures with a focus on responsive design and usability; conducted analysis on 5 key metrics, demonstrating a 25% efficiency improvement with the Client-Server model.

Designing AI Agents in Custom Environments: [Python, Git]

- Designed and optimized intelligent agents for 3 diverse environments using heuristic search and reinforcement learning, achieving an 80% success rate through algorithm tuning and environment-specific adaptations.

Multimodal AI for Clinical Outcome Prediction: [Python, PySpark, Pytorch, SQL, HPC, Git]

- Developed fairness-aware models combining structured data with unstructured clinical notes using BioClinicalBERT and LLaMA.
- Achieved 85% AUROC in ICU mortality and readmission prediction by leveraging Generative AI to summarize clinical notes and improve accessibility.

EDUCATION

Southern Methodist University, Dallas, Texas

CGPA: 3.93/4.0

Master of Science, Computer Science

Aug 2023 – May 2025

Amrita Vishwa Vidyapeetham, Kerala, India

CGPA: 8.48/10

Bachelor of Technology in Computer Science and Engineering

Jun 2016 – Aug 2020

TEACHING EXPERIENCE

- Teaching Assistant for Database Management and Python courses at SMU, assisting faculty in designing and grading assignments, and mentoring over 100 students to enhance their technical understanding.

PUBLICATIONS

- ICSCAN 2020 (IEEE): Smart Resource Handling Module for Parking. [\[link\]](#)