Prashant Iyer

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EDUCATION

Southern Methodist University, Dallas, Texas   **CGPA: 3.95/4.0**
Master of Science, Computer Science **-** Specialization in AI & ML   *Aug 2023 - Present*
Amrita Vishwa Vidyapeetham, Kerala, India   **CGPA: 8.48/10**
Bachelor of Technology in Computer Science and Engineering   *Jun 2016 – Aug 2020*

TECHNICAL SKILLS

Programming Languages: Python, SQL, PySpark, C, C++, JavaScript, R, Java, HTML, CSS, Shell Scripting
Database Environments: MySQL, MongoDB, PostgreSQL, Oracle DB, SAP HANA
Development Platform: AWS, GCP, Kubernetes, Docker, Power BI, Databricks, Jenkins, Hadoop
Development Tools: GitHub, Bitbucket, Eclipse, VS Code, Jupyter Notebooks, JIRA, Terraform, R Studio
Frameworks: Django, Flask, Node.js, React.js

EXPERIENCE

Michaels Technology, DevOps Intern, Irving, Texas   *Jun 2024 – Aug 2024*
- Implemented 40+ critical security patches, restrictions, and firewall rules to ensure comprehensive security measures.
- Managed 50+ IAM/PAM access roles across GCP, effectively addressing ad-hoc tasks or issues within the specified SLA.
- Integrated Jenkins-based CI/CD pipelines to automate testing and deployment processes, enhancing speed by 35% and improving release cycle reliability by 40%.
- Established 5 major workflows to organize various states across JIRA, improving task management and project tracking.

Enquero – a Genpact company, Data Engineer, Bangalore, India   *Sep 2020 – Jul 2023*
- Developed reusable frameworks for automating data processing, validation, and visualization, reducing manual effort by 40%.
- Orchestrated 5+ robust data pipelines and process flows using Python, Pyspark, SQL, and AWS, enhancing data accessibility and reliability for stakeholders, and integrating PowerBI for reporting and visualization.
- Architected a robust back-end data module in SAP HANA for a leading networking company, enhancing system reliability and expanding data accessibility by 30%.
- Applied Machine Learning and Deep Learning for data preprocessing, feature extraction, and model training, resulting in more accurate, actionable insights that significantly impacted business decisions, improving overall productivity by over 50%.
- Managed client interactions to define requirements, ensured on-time project completion and mentored four interns on technical skills and business processes.

Enquero – a Genpact company, Intern, Bangalore, India   *Jan 2020 – Jun 2020*
- Administered the MySQL database for in-house information storage, maintaining data architecture, and developing business logic for effective solutions.

ACADEMIC PROJECTS

Covid-19 Impact Analysis: *[R, Git]*
- Created 30+ visualizations and detailed reports with 5 key recommendations based on end-to-end analysis of COVID-19 data, employing EDA, clustering, and classification to identify key points of impact and help flatten covid curve.
- Tailored this solution considering administrators of counties in Texas as a use case for analysis, reducing analysis time by 30%.

Architectural Design and Comparative Analysis: *[JavaScript, Node.js, React.js, MySQL, Django, HTML, CSS, Git]*
- Designed and implemented food ordering applications using both Layered and Client-Server architectures.
- Performed in-depth comparative analysis of these architectures, rigorously evaluating 5 key metrics to highlight their performance advantages, sustainability, and suitability, with Client-Server architecture demonstrating 25% boost in efficiency.

AI Agent - Design and Optimization: *[Python, Git]*
- Devised and optimized intelligent agents to navigate and solve problems in 3 diverse environments, utilizing AI algorithms such as heuristic search and reinforcement learning, achieving success rate of 90% when solving the problems.

Skill Management Platform: *[JavaScript, Node.js, React.js, Postgres, HTML, CSS, Git]*
- Built comprehensive skill management platform for employees to rate their skills, add certifications, and track their growth, increasing skill tracking by 40% and reducing project assignment time by 30%.
- Integrated management features for monitoring employee skills, assigning projects based on competencies, and managing performance ratings, leading to 25% improvement in overall user satisfaction through usability testing.

VOLUNTEERING EXPERIENCES

- Promoted coding culture in schools: Conducted workshops to teach school students basic coding skills.
- Served as a Teaching Assistant for the File Organization and Database Management course, providing mentorship and evaluating approximately 100 students, addressing their inquiries, and enhancing their understanding.

PUBLICATIONS

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