

SAI SRIKAR REDDY KOLLI

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EDUCATION

Computer and Information Sciences

Present

University of Missouri Columbia

Department of Computer Science Engineering

Aug 2024

Indian Institute of Information Technology

7.64 GPA

TECHNICAL SKILLS

Data Analysis and Modeling: Python (Pandas, NumPy, SciPy), R, SQL, MATLAB, Excel, Regression Modeling, Forecasting, Anomaly Detection

Data Visualization: Power BI, Tableau, Matplotlib, Seaborn, DAX

Data Management and Compliance: Data Validation, ETL Pipeline Development, Quality Assurance, REDCap (familiar), Azure Data Factory, Databricks, MySQL, MongoDB

Software Engineering and Systems: Data Structures, Algorithms, Systems Design, Object-Oriented Programming (OOP), Distributed Systems, Parallel Computing, Unix/Linux Environments, Networking Basics, Security, Asynchronous Programming

Programming Languages: Python, Java, C++, Go (familiar), JavaScript

Tools and Platforms: Git, Microsoft Fabric, Azure Synapse Analytics, Prophecy

Soft Skills: Stakeholder Communication, Project Ownership, Documentation, Process Improvement, Critical Thinking, Problem-Solving, Team Collaboration

EXPERIENCE

MAQ Software Hyderabad: Software Engineer 1

May '24 - Jun '25

- Pioneered the creation of Linked Services and Datasets within Azure Data Factory (ADF) for extracting data from 7 distinct sources, migrating them to Azure Data Lake Storage (ADLS).
- Engineered data transformation processes within Azure Data Bricks, employing SQL and PySpark to cleanse and structure datasets, leading to a 10% reduction in data anomalies and improved data quality.
- Staged the extracted data on Azure Data Bricks (ADB) and applied transformations, implement business logic on the data using SQL and PySpark.
- Loaded the tables created into different storage such as ADLS, ADW, and SQL Databases.
- Created Semantic Models using the tables in Power BI for visualizations of the data as per the customer requirements.
- Implement Relationships between the tables and ensure the quality of the data.
- Used DAX functionalities to create several measures as per the requirements.
- Experience in the latest products, such as Microsoft Fabric.
- Developed a Python-based backend tool to automate conversion of Power BI files into Microsoft Fabric-compatible formats, streamlining reporting workflows.

SP Software (P) Limited Hyderabad: Associate Software Engineer Intern

Feb '24 - Apr '24

- Enhanced image processing pipeline by integrating ESRGAN algorithms, achieving a 5% improvement in text clarity and legibility, while decreasing image processing time by 15 milliseconds per image.
- **Innovative Research:** Conducted research to explore cutting-edge methods for enhancing text visibility and quality in images using ESRGAN techniques.

ACADEMIC PROJECTS

ESRGAN

Github [↗](#)

Collaborated with team members to develop and implement advanced ESRGAN algorithms, significantly improving text clarity and legibility in images.

- Implemented and fine-tuned ESRGAN models, converting SD videos to HD with 30% improved visual fidelity and 20% fewer artifacts.






- Upscaled low-resolution video frames using advanced super-resolution techniques, achieving 40% sharper images and 25% better detail retention in HD output..

STOCKS PORTFOLIO DASHBOARD

Github 

- Designed and developed a Stocks Portfolio Dashboard using the MERN stack, enabling real-time investment tracking for 100+ users and providing stock updates and news.
- Ensured robust **user authentication and verification**, safeguarding user data and maintaining the security of investment information.

CERTIFICATIONS

Microsoft : Microsoft Certified: Fabric Analytics Engineer Associate	Certification 
DeepLearning.AI : Supervised Machine Learning: Regression and Classification	Certification 
DeepLearning.AI : Neural Networks and Deep Learning	Certification 
OpenCV University : OpenCV Bootcamp Certificate	Certification 
OpenCV University : Tensorflow Keras Bootcamp Certificate	Certification 

ACTIVITIES

IOTA Club College: Club Member

- **Collaboration and Networking:** Collaborated with fellow members on various tech-driven projects, fostering a strong sense of community and expanding professional networks within the college.
- **Technical Contributions:** Contributed to the development and testing of software tools and applications as part of club projects, gaining practical experience in real-world tech scenarios.

Football Team College:

- **Inter-IIIT Football Championship:** Played in the inter-IIIT football championship and secured 2nd place, demonstrating teamwork, strategic thinking, and athletic prowess.

Ramky Foundation Hyderabad: Social Service Volunteer

June 2023,May 2024

- Participated in the “**IEC-Public Awareness on Plastic Dry Waste Management Project**” to promote sustainable waste management practices in Mehboobnagar under the guidance of Ramky Foundation’s planning team.
- Actively contributed to **CSR initiatives, including health camps, mobile health unit projects, and awareness campaigns** for rag pickers as part of a plastic dry waste management project.
- Demonstrated commitment, passion, and sincerity while driving community welfare activities at Ramky Foundation.