SURYAKIRAN SURESHKUMAR

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EDUCATION

• Courant Institute of Mathematical Sciences, New York University M.S - Computer Science; GPA: 3.8/4.0

New York, NY September 2022 - May 2024

• Thiagarajar College of Engineering

B.E - Computer Science and Engineering; GPA: 9.1/10.0

Madurai, India August 2017 - April 2021

SKILLS SUMMARY

• Programming Languages: Python, C++, C, Java, Go

• Web Development: HTML, CSS, JavaScript, jQuery, React.js, Node.js, Express.js, Flask, Django, FastAPI, REST API

• Databases: MySQL, PostgreSQL, MongoDB, Oracle

• Cloud Technologies: Azure, Oracle, AWS

• Version Control & CI/CD: Git, GitHub, GitLab, Azure DevOps

• Data Libraries & ML: PySpark, Pandas, NumPy, Scikit-Learn, Matplotlib, OpenCV, PyTorch, Tensorflow

• Tools & Platforms: Postman, Power Apps, DataBricks, Tableau, Docker, Flutter, JIRA

EXPERIENCE

• Data Engineer Intern

Promantus Inc.

June 2023 - August 2023

Raleigh, North Carolina, US

- P&ID detection: Implemented and fine-tuned few-shots object detection model, resulting in a 10% improvement in detection & classification accuracy compared to the previously implemented solution.
- Automated Cash Application: Defined parsers in Java for the cash application, enabling seamless integration with multiple bank statement formats resulting in a 50% reduction in manual effort and a 95% increase in data accuracy.

• Analyst, Machine Learning Engineering

Tiger Analytics

February 2021 - July 2022

Chennai, India

- No-Code data science platform: As the founding engineer, the role involved spearheading the team, architecting 30+ predefined functions for data science tasks using Azure Databricks and PySpark, creating a backend API for execution, and establishing a CI/CD pipeline that improved deployment speed by 20%. Collaboration and communication with cross-functional teams ensured the successful rollout and integration of the platform.
- Automated Shelf Analysis: Engineered a mobile application that captures video of items on shelves and provides an overall count of each product, resulting in a 60% reduction in manual labor.

• Academic Intern

June 2019

National University of Singapore

Singapore

- Gained knowledge and experience in Big Data Analytics using Artificial Neural Networks.
- Pioneered the development of an application for detecting phishing sites, which received the best project award out of 40 projects.

• Summer Intern

June 2019

Hewlett Packard Enterprise

Singapore

Acquired deeper understanding on Big data and Hadoop System Administration.

ACADEMIC PROJECTS

- Phishing Site Detection: Developed a web application, complemented by a Chrome extension, that utilizes a neural network to detect phishing sites after rigorous data cleaning, achieving an accuracy of 98.73%. The system notifies users about the safety of sites and forwards analysis to the cyber department.
- Covid Fight: Designed and developed a mobile application aiding users during the coronavirus pandemic. Features include live count updates of cases, a crisis communication chatbot to resolve pandemic-related queries, a self-diagnosis tool, hand-washing reminders, and immediate access to distress numbers.
- Using video summarization techniques for effective search indexing: Combined deep learning-based video summarization, image captioning, key-frame extraction, and stop word removal to enhance video search indexing. This approach resulted in a 230% improvement in search engine recall scores.

PAPER PUBLICATIONS

- "Deep learning framework for component identification" International Journal of Information Technology (2022), Springer 2022. : Designed a system to monitor a manufacturing assembly line, detecting, classifying, and counting various components in real-time imagery.
- "Scene Understanding in Night-Time Using SSAN Dataset" National Conference on Computer Vision, Pattern Recognition, Image Processing, and Graphics 2019, Springer 2020. : Proposed a system that leverages a CCTV camera to enhance captured images and effectively detect objects in night-time conditions.