RIGVED MANOJ

University of Massachusetts, Amherst

Sept, 2023 - Present

Master of Science in Computer Science

National Institute of Technology, Tiruchirappalli

July, 2016 - June, 2020

Bachelor of Technology in Electronics and Communication

EXPERIENCE..

Visa Inc. Senior Data Engineer

Mar, 2023 - July, 2023

- O Spearheaded the development and validation of a config-driven, scalable utility that achieved a 10% reduction in manual testing.
- Played a pivotal role in the end-to-end implementation of a data pipeline, handling a daily load of 10 million transactions.
- Oconducted root cause analysis and resolved a critical data inconsistency issue that ensured customer retention.
- O Keywords: Apache Hadoop, Apache Spark, Apache Hive, Python, Scala, ETL (Extract, Transform and Load)

Data Engineer

Oct, 2020 - Mar, 2023

- Designed, built, and maintained high-capacity applications capable of managing large-scale multi-dimensional data sets.
- O Created an ETL tool resulting in a 50% reduction in code redundancy and improved operational efficiency across applications.
- O Contributed to the India Localization initiative, ensuring compliance with central bank guidelines and mitigating regulatory risks.
- Keywords: Data Processing, SQL, IBM DB2, Shell Script, Agile, Data Warehousing, Data Engineering

Data Science Intern

May, 2019 - July, 2019

- Conducted in-depth analysis of time series models and elected the most effective one for forecasting commercial data.
- O Designed and Implemented an end-to-end forecasting tool utilizing Prophet framework to detect anomalies in transactional data.
- o Enhanced accuracy by 18% through a blend of grid search and random search for hyper-parameter optimization.
- O Built a user-friendly interface for the representation of forecasted data, allowing users to effortlessly interact with the statistics.
- Keywords: Artificial Intelligence, Anomaly Detection, Data Modeling, Machine Learning, Data Analysis
 WeCP

Algorithm Developer Intern

May, 2018 - July, 2018

- Designed programming questions across key domains such as segment trees, greedy and dp, binary trees, and graphs.
- Conducted thorough testing of developed questions to ensure quality and reliability in assessments.
- Authored detailed solutions for the designed questions, contributing to the effectiveness of the assessment process.
- O Keywords: Comprehensive testing, Programming questions, Quality assurance, Algorithm development

PROJECTS.....

Agent/Environment Generator | Repository

Sep. 2023 - Oct, 2023

- O Developed an environment randomizer to rigorously test and evaluate reinforcement learning algorithms.
- Iteratively estimated the value function and progressively improved policies to identify the optimal policy.
- Utilized networkX to create visualizations of the generated environments and optimal return paths.

CNN based AMD Detection | Publication

Mar, 2020 - May, 2020

- O Designed a multiscale CNN with six convolutional layers to extract and merge local and global features effectively.
- Achieved high accuracy using random forest classification, with accuracy scores over 96% on various data sets.
- Utilized ten-fold cross-validation to rigorously validate the AMD detection algorithm's performance.

RPE Recognition in Retinal OCT | Publication

Jan, 2020 - Mar, 2020

- Developed a novel approach to extract RPE layer and baseline from retinal OCT images for AMD diagnosis.
- Employed contrast enhancement for speckle elimination and pixel grouping for RPE layer extraction.
- O Attained a 96.66% accuracy on a dataset of 2130 images, offering robust RPE detection.

Reverse Chess | Repository

Jan, 2019 - Mar, 2019

- Led a four person team in developing an engaging chess GUI with reverse chess rules.
- Integrated Min-Max algorithm, providing an AI opponent capable of strategic decision-making.
- o Guided the project from inception to execution, fostering a culture of collaboration among the team.

TECHNICAL SKILLS...

Languages - Python, Java, Shell Script, C/C++, MySQL, Scala, Hive, Spark, JavaScript, HTML, CSS **FrameWorks and Tools** - Django, React, IntelliJ, VS Code, Git, Grafana, Control M

ACHIEVEMENTS

- Shortlisted for onsite regional ACM ICPC twice.
- Won INR 15000 for placing First in "Three's a Crowd" (Competitve Coding Contest).
- Attained a CodeChef rating peak of 2041.
- Received Visa Go Beyond Recognition.