

Rigved Manoj

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EDUCATION

University of Massachusetts, Amherst

Master of Science in Computer Science

Amherst, MA, USA

Sept, 2023 - Present

Coursework: Theory and Practice of Software Engineering, Reinforcement Learning, Computer and Network Security

National Institute of Technology, Tiruchirappalli

Bachelor of Technology in Electronics and Communication (Minor in Computer Science)

Tiruchirappalli, TN, India

July, 2016 - June, 2020

Coursework: Data Structures and Algorithms, Operating Systems, Computer Organization, Database Management System, Software Engineering, Big Data Analytics, Network Security

EXPERIENCE

Visa Inc.

Senior Data Engineer

Bangalore, KA, India

Mar, 2023 - July, 2023

- Spearheaded the development and validation of a config-driven, adaptable testing utility, resulting in a 10% reduction in manual testing efforts.
- Played a pivotal role in the complete design and implementation of a new data pipeline, contributing to its successful development and deployment.
- Keywords: Apache Hadoop, Apache Spark, Apache Hive, Python, Scala

Visa Inc.

Data Engineer

Bangalore, KA, India

Oct, 2020 - Mar, 2023

- Developed and maintained various applications handling high-volume multi-dimensional data sets.
- Designed and deployed a scalable ETL tool that reduced code redundancy across applications by 50%.
- Contributed to the India Localization initiative, ensuring compliance with RBI guidelines, thus mitigating regulatory risks.
- Keywords: Data Processing, ETL Development, IBM DB2, Shell Script, Agile

Visa Inc.

Intern

Bangalore, KA, India

May, 2019 - July, 2019

- Designed and implemented an end-to-end forecasting tool utilizing Facebook's Prophet framework, optimizing hyper-parameters to detect anomalies in transactional data.
- Improved over the existing Holt-Winters model by 18%.
- Built a user-friendly interface for the graphical representation of forecasted data.
- Keywords: Artificial Intelligence, Anomaly Detection, Data Modeling, Machine Learning, Data Analysis

KEY PROJECTS

ETL automation

Jan, 2022 - Feb, 2022

- Designed a generic service to perform extract, transform and load.
- Created a config driven scala utility that takes in source and target table details and performs the data load.
- Reduced code redundancy and optimized data flow across applications.

RPE layer detection for classification of AMD from retinal OCT | [Publication](#)

Jan, 2020 - May, 2020

- Designed a unique statistical algorithm to classify AMD from retinal OCT.
- AMD classification from retinal OCT requires the extraction of an intact RPE layer.
- Employed Pixel Grouping, Polynomial Fitting and other techniques to extract and classify.

Reverse Chess | [Repository](#)

Jan, 2019 - Mar, 2019

- A variant of chess where losing all pieces leads to victory.
- Used dynamic level Min-Max algorithm to create an AI opponent.
- Designed a optimal value function and depth for effective utilization of Min-Max algorithm.

TECHNICAL SKILLS

Languages - Python, Shell Script, C/C++, MySQL, Scala, Hive, Spark

Tools - IntelliJ, VS Code, Git, Grafana, Control M

OS - Windows, Linux, Mac

ACHIEVEMENTS

- Shortlisted for onsite regional **ACM ICPC** twice.
- Won INR 15000 for placing **First** in "Three's a Crowd" (Competitive Coding Contest).
- Attained a CodeChef rating peak of **2041**.