Rahul Yenduri

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EDUCATION

Master of Science (MS) **in Computer Science** | University of California, Riverside
March, 2025
Bachelors of Technology (B. Tech) **in Computer Science** | Sagi Rama Krishnam Raju Engineering College
July, 2021

TECHNICAL SKILLS

Languages: Python, C/C++, Java, PHP, JavaScript, HTML/CSS, R
Databases: MySQL, PostgreSQL, MongoDB, Oracle, Hadoop, Spark
Cloud Platforms: Amazon Web Services, Google Cloud Platform, Salesforce
Frameworks: React, Node, Express
Tools: Git, Visual Studio, Pyspark, Apache Airflow, Snowflake, Tableau

TECHNICAL EXPERIENCE

Graduate Teaching Assistant   **University of California, Riverside**   April, 2024 – June, 2024

- Courses Lectured: Database Management Systems, Introduction to computing.
- Designed and conducted labs for Database Management Systems, covering ER diagrams, SQL queries, and database projects. Created lab materials and assignments, ensuring alignment with course objectives and enhancing practical application of theoretical concepts.
- Taught foundational computing concepts, including building basic web pages with HTML and CSS, and introduced essential programming principles and computing tools to beginners, fostering a solid understanding of computing basics.
- Evaluated student performance through quizzes, lab assignments, and projects. Provided constructive feedback and contributed to fair and consistent grading processes, ensuring student improvement and understanding.

Business & Data Analyst   **ZS Associates, India**   Oct, 2021 – July, 2023

- Involved in multiple projects across clients and internal provisions to design, fabricate and develop comprehensive business solutions.
- Developed the backend and integration of a migration tool that helped transfer data with **95% efficiency and 100% accuracy** across the firm's product platforms, which had a huge impact by saving time and resources for the clients and the company.
- Studied and implemented an efficient alignment generation tool on AWS Aurora using PostgreSQL and Cloudwatch for monitoring which was later **incorporated as a crucial component in the firm's latest flagship product** as it processed data quicker by taking **20% less time** than before with compliance.
- Designed and developed a tool that finds and analyzes the Root Cause of an alignment drop using Glue an AWS Product for the Backend, Git and Apache Airflow for the Integration and our firm's product to deploy the frontend saving **weeks of manual labour and hundreds of dollars** for the analysis job giving a hands on experience in product design.
- Played a key role in onboarding new employees and interns to the company, guiding and mentoring them through a profusion of technologies.
- Mastered the expertise to understand problem statements in a business perspective as well as technical aspects and coming out with the most effective and efficient solutions.
- Produced various kinds of reports, design documents and test case documents for internal and client discussions.
- Received spotlight recognition and "Rockstar" award from leaders for showcasing exceptional skills during project deliveries.

ACADEMIC PROJECT EXPERIENCE

Detection of Breast Cancer Recurrence

- Built a predictor that takes in a patient's medical history and predicts if there is a chance for the recurrence of the cancer. This was achieved by combining the results of three ensembling methods by a soft voting classifier.
- Gained extensive experience in **Python, HTML, Flask, MongoDB** while working in the classifier project. Acquired exposure on various types of datasets and **Machine Learning models** that suit them.
- The predictor yielded a **90% accuracy and 88% specificity** and also an interactive UI was developed using web development tools that takes in the required data and gives out the results.

Mobile Carrier Network Strength Mapper

- Developed a spatial data project involving two polygonal datasets: one detailing city properties in the US and another containing signal strengths of various mobile networks using **Scala, Pyspark, Python, Java, BEAST(UCR), Pandas**.
- Employed spatial intersection techniques to map properties to available mobile networks with signal strength data.
- Visualized results using **QGIS**, demonstrating the complex process of intersecting polygons from disparate datasets.

Forecasting Insurance Premium Prices

- Developed a comprehensive insurance premium pricing forecast system using **Big Data Techniques, machine learning, Python, and MySQL. Integrated MongoDB, Express.js, React.js, and Node.js** to create an interactive web UI for the system. Utilized historical premium prices and disbursed amounts to predict future premiums, enhancing financial decision-making for insurance companies.