Harsha Vardhan Reddy Kuncha

Tempe, AZ | (623) 302-8447 | harsharedddy.kuncha@gmail.com | linkedin.com/in/harshakuncha | Open to Relocate

Education:

Master of Science in Computer Science **August 2023 – May 2025**

Arizona State University *Tempe, AZ, USA*

Courses: Statistics, Data Mining, Data Analysis and Visualization, Machine Learning, Database Design and Management

Technical Skills:

Programming Languages:Python, Java, JavaScript, SQL, C, C++, C#, Shell, Bash
Frameworks/ Libraries:Flask, Next.js, Express, Node, Npm, React.js, Pandas, Numpy, Scikit Learn, Seaborn, Matplotlib, Celery
Other Tools: Git, Jira, Linux, Microsoft Office Suite(PowerPoint, Word, Excel), Andriod Studio

Experience:

Software Development Engineer **August 2022 – July 2023**

Oracle India Pvt.Ltd *HYderabad, TG, India*

- Developed and maintained an end-to-end Synthetic SaaS invoice dashboard feature within full-stack application, utilizing Flask to create RESTful API services, tailored for contractors, enabling seamless invoice management functionalities.
- Led end-to-end data analysis projects, wrangling data by developing extraction tools, performing cleansing, validation, transformation, and analysis. Presented actionable insights to leadership while ensuring transparency through documentation.
- Integrated transactional data from multiple sources using Power Query to develop interactive Power BI dashboards for banking operations and leadership, enabling real-time monitoring of overnight batch processing and reporting performance.
- Analyzed transactional data and market trends using Python and SQL. Employed DAX within Power BI to automate reports and provide recommendations, contributing to a 10% increase in new customers for a product launch.
- Utilized Databricks for regulatory reporting, reducing report generation time by 40% and improving data accuracy by 15%.
- Implemented A/B testing methodology to assess the efficacy of targeted promotional strategies for a new product launch, analyzing customer engagement and conversion rates. Conducted hypothesis tests to determine the most effective approach, resulting in a significant boost in new customer acquisition.

Project Intern (Full Stack Developemt) **January 2022 – July 2022**

Oracle India Pvt.Ltd *HYderabad, TG, India*

- Implemented a feature for convenient downloading and installation of new deployments from the cloud within the web application with docker compose to spin up and to enrich user experience with real-time progressive monitoring.
- Analyzed monthly service fee data using Python, SQL, and Databricks, applying advanced statistical techniques including probability distributions, correlation analysis, and linear regression. Identified key trends that guided strategic pricing adjustments, resulting in a significant 15% revenue increase over six months.
- Reduced processing time for large datasets through SQL query and index optimization, resulting in a 45% decrease in query execution time, enabling automatic dashboard refresh, and enhancing overall performance.

Projects:

E-Library Web Application

- Designed an web application in C# and ASP.NET Core, enabling diverse triggers and ER model that includes the entities, relationships, and attributes involved in creation of and tuned into a normalized relational model to ensure data integrity.

Worldwide Messaging With AMQP Protocol.

- Designed and developed a distributed messaging micro service, akin to Apache Kafka or RabbitMQ, enabling asynchronous communication between different social like providing high throughput and latency reduction by 30%.

Demographic Spending Patterns at ERAS Tour Concert Events

- Analyzed spending patterns at ERAS Tour concerts using Python for web scraping and data processing and Power BI for visualization. Presented targeted marketing strategies and revenue optimization insights at a conference.

Optimizing Football Team Composition through Player Segmentation

- Implemented player segmentation techniques using clustering algorithms, such as K-means, and data preprocessing and exploratory data analysis skills to compose a football team strategically.

COVID-19 Diagnosis Using Image Analysis

- Developed a Python-based machine learning model using advanced image processing techniques and Convolutional Neural Networks (CNNs) to accurately diagnose COVID-19 from medical imaging scans, achieving a 76% accuracy.