SAGAR RUDAGI

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EDUCATION

Arizona State University — **Tempe, Arizona, USA**
Master of Computer Science (MCS) — **August 2021 – May 2023**
Coursework: Data Mining, Data Processing at Scale, Data Visualization, Introduction to Deep Learning, Natural Language Processing

BMS College of Engineering — **Bangalore, India**
Bachelor of Engineering in Computer Science (BE) — **August 2017 – May 2021**
Coursework: Python, Database Management Systems, Fuzzy Logic and Neural Networks, Big Data, Artificial Intelligence, Data Science using R

PROFESSIONAL EXPERIENCE

TE Connectivity Services India Pvt Ltd — **August 2020 – July 2021**
Data Insights and Analytics Engineer — **Bangalore, India**

- Spearheaded **Cloud Migration** Project from migrating 60-70% data to **AWS Redshift** resulting in 40% increase in query performance
- Transformed raw data from SAP Hana and Oracle Runtime Database using **MySQL**, Cassandra, and Hive enhancing data accuracy by 60%
- Authenticated large databases over 5 million records utilizing **AWS Athena**, **S3** and **Excel** to rectify inaccuracies with a success rate of 98%
- Automated the manual validation process through pipelines using **Python** reducing the time from 10 hours/day to a few seconds
- Administered **CI/CD** pipelines using AWS CodeBuild, AWS CodePipeline, and Jenkins for **continuous deployment** of validated datasets
- Designed **Terraform** scripts to automate the provisioning of AWS infrastructure, optimizing resource utilization and enhancing scalability.

Docintosh — **August 2019 – July 2020**
Data Scientist — **Bangalore, India**

- Conducted rigorous **data analysis** on existing healthcare data consisting of over 10,000 patient records, identifying significant **trends and correlations** that resulted in a 20% decrease in patient readmission rates
- Led **data cleaning and preprocessing** efforts on a clinical dataset, effectively reducing data inconsistencies by an impressive margin of 80%, ensuring the accuracy and completeness of the data for subsequent analysis
- Conducted in-depth analysis of **user engagement patterns** on the Docintosh platform, processing and interpreting a dataset of over 1 million interactions to identify key trends and insights
- Led a team in creating interactive **data visualizations** and dashboards using **Tableau**, resulting in a 30% increase in data comprehension among healthcare stakeholders and facilitating **data-driven decision-making** processes
- Conducted **A/B testing** experiments on a healthcare intervention, analyzing statistical significance using **t-tests** and achieving a 25% improvement in patient engagement metrics, leading to enhanced patient satisfaction and adherence to treatment plans

ACADEMIC PROJECTS

Quora Question Pairs Similarity | Tech Stack - Python, NLTK, Keras, Jupyter Notebook — **September 2022 – November 2022**
Arizona State University

- Leveraged **Matplotlib** to design comprehensive visual plots resulting in a 20% improvement in accuracy of class distribution analysis
- Operationalized **Spacy** to vectorize data during feature extraction, reducing processing time by 35% and improving model performance by 15%
- Implemented **data preprocessing** techniques such as tokenization and stemming to ensure 99.9% data quality
- Collaborated to develop an innovative **feature engineering** method that amplified model accuracy by 12%
- Tested various **predictive models** such as Logistic Regression, SVM, and Gradient Boosted Decision Trees, with the latter outperforming the others with an accuracy of 79.29%, reducing error by 20%

Stock Market Prediction | Tech Stack – Python, Keras, API Integration, AWS, Flutter — **July 2020 – December 2020**
BMS College of Engineering

- Coordinated to design and implement a scalable **deep neural network architecture** for stock price prediction with 93% accuracy
- Harnessed historical stock market data to develop LSTM networks, improving the next-day stock movement prediction by 75%
- Dissected the fundamental data of the company algorithmically using python API and predicted the health of the stock in the long term
- Employed **AWS S3** and **DynamoDB** to efficiently transform and store data in JSON format, reducing data processing time by 50%
- Engineered a **Flutter mobile application** that displayed key performance metrics of the stocks in a visually appealing and user-friendly manner

SKILLS

Programming	Databases	Framework and tools	Certification
Python, SQL	MySQL, NoSQL, MS-SQL	GCP BigQuery, Docker, Apache Airflow, Apache Spark, Tensorflow, PyTorch, Keras, FastAPI, Power BI, Tableau, Microsoft Excel, AWS, Jenkins, Looker	Deep Learning Specialization, Data Analysis with Python (IBM), AWS Fundamentals, Creating Business Value with Data and Looker, Google Cloud Professional Data Engineer Certification (in-progress), Google Professional Data Analytics, Data Visualization with Tableau