NISCHAY GIRISH GOWDA

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Education

Master of Science - Computer Science (Aug 2022 – May 2024)
Arizona State University, Tempe, Arizona **GPA: - 3.3/4.0**

Bachelor of Engineering - Electronics and Communication (Aug 2014 – Aug 2018)
Visvesvaraya Technological University (VTU), KA, India **CGPA: - 8.5/10**

Skills

Languages: Python(NumPy, Pandas, Scikit-learn, PySpark, SQLAlchemy) , SQL**,** UNIX Shell Script, Scala
Frameworks: PyTorch, Apache Spark and Django REST Framework.
Technical: Machine Learning (supervised and unsupervised learning), Deep Learning (Neural Networks), Data Visualization, Big Data Analysis.
Cloud Platforms: AWS (Sagemaker**,** Glue, Lambda, EC2, Redshift, EMR) and GCP(VM, BigQuery, Cloud Storage).
Tools & Databases: Databricks, Docker, Terraform, PostgreSQL, Snowflake, Airflow, PowerBI, Mongo Db, Informatica, Salesforce (SFDC) **.**

Professional Experience

Research Assistant (Unpaid), Ira Fulton School of Engineering, ASU; Tempe, AZ, USA; (May 2023 – July 2023)

- Built a Credit Card Fraud Detection Model using classification algorithms (Logistic Regression, Decision Tree, K-Nearest Neighbor, SVC) to handle a highly variable and imbalanced dataset. **[Link]**
- Plot correlation matrix to check the influence of variables on Target label and Box plot to identify the data distribution and outlier patterns.
- Performed PCA dimensionality reduction, Robust scaling to remove outliers and Sampling to get equal number of Fraud/Not Fraud cases.
- Key metric to access our model performance is False Negative rate. Specificity score of models – (Logistic Regression – 0.98, Support Vector Classifier – 0.99)

Data Science Engineer, Piramal Finance, Bangalore, India; (April 2021 – July 2022)

- Developed an ETL data pipeline utilizing SQL queries and tools like AWS Glue, Redshift, EC2, Athena, S3, Code Commit, PowerBI, and Apache Airflow to automate the CSAT dashboard and incorporate 10+ operational KPIs, improving customer service efficiency by 15%.
- Reduced Sales Employees **churn rate by 15%** by implementing a Random Forest forecasting model with 85% accuracy, leveraging tools like AWS SageMaker & Glue, automated with Apache Airflow.
- Reduced data loading latency on dashboard by 50% by building DataMart and writing effective SQL query DAGs, leveraging AWS Glue, and Apache Airflow, and adhering to DevOps practices.
- Improved daily business operations and sales reporting accuracy by 60% by building an API with an automated scheduling module, integrating SQL Server for database interactions. Managed project tasks and documentation using JIRA and Confluence, reducing manual labor by 20%.
- Worked closely with stakeholders from Banking, Business Operations & Customer Service departments to ensure alignment of analytics initiatives with business objectives, crafting bespoke reports & Optimized analytics.

Junior Data Scientist, Radome Technology, Bangalore, India; (June 2019 – March 2021)

- Developed and deployed inventory and sales forecasting modules using statistical (ARIMA, ARMA) modeling and (Random Forest, Support Vector Machine) regression-based predictive models, achieving an impressive **85% accuracy** rate. Leveraged tools like PostgreSQL, and Apache Airflow.
- Performed pre-processing techniques such as Feature engineering, Dimensionality reduction, which resulted in significant improvement in the model performance and prediction accuracy by **10%**.
- Developed an end-to-end object detection application using Regional CNN model, to detect various aircraft with **83%** accuracy in real-time at 30 frames per second video output. Leveraged tools like Tensorflow, Code Commit, and Python Flask.
- Contributed to R&D by researching machine learning papers related to Forecasting and Object Detection Computer vision based and developed proof-of-concepts and presenting demos to senior team members and clients.

Publication & Presentation

- Developed and implemented a Novel approach for **Breast Cancer Detection** with Image segmentation technique and Artificial Neural Network algorithm MATLAB with 80% in accuracy, published in **International Journal of Engineering Research in Electronics and Communication Engineering (IJERECE) in 2018. – [Paper Link]**