**PRANAV KOTTOLI RADHAKRISHNA**

3154809845, pkottoli@syr.edu, www.linkedin.com/in/pranav-kr-a7249a17a, https://github.com/PranavKR66

**EDUCATION**

**Master of Science in Applied Data Science,** SyracuseUniversity, Syracuse, NY **May 2021**

*Relevant Coursework*: Data Analytics, Big Data Analytics, Natural Language Processing, Data Analysis and Decision Making, Data Warehouse, Business Analytics, Artificial Neural Networks, Financial Analytics **GPA: 3.97**

**Bachelor of Engineering in Computer Science**, Sir M. Visvesvaraya Institute of Technology, affiliated to Visvesvaraya Technological University (VTU), Bangalore, India **Jun 2017**

**WORK EXPERIENCE**

**Software Engineer, Solcen Technologies, Bangalore, India Apr 2017-Jun 2019**

* Worked in a team of 20 to implement Microsoft Dynamics Ax for Chanel in Brazil.
* Collaborated with clientele to develop and customize the environment based on business understanding.
* Created SQL views to query thousands of rows of data in Microsoft SQL Server management Studio.
* Monitored and maintained e-commerce interfaces in the production environment.
* Provided timely solutions to bugs that may present themselves in the production environment.

**Data Science Intern, iSmile Technologies, Bolingbrook, IL Jul 2020-Sep 2020**

* Used web scraping techniques to gather data using the rvest package in R.
* Built an interactive dashboard using RShiny to visualize the impact of different parameters on insurance premiums.
* Implemented Random Forest in Python to determine whether a patient requires the attention of a healthcare professional based on inputs provided by sensors such as heart rate monitors.
* Improved the performance of existing models by approximately 4% by eliminating model bias.

**Graduate Teaching Assistant, Syracuse University, Syracuse, NY Aug 2020-Dec 2020**

* Mentored students in concepts like Regression, Artificial Neural Networks, Decision Trees and Ensemble Learning
* Instructed students on how to work with big data tools like HDFS, Apache Spark, Mapreduce and Databricks.
* Designed course content by building Jupyter notebooks to demonstrate the use of Pyspark for data science.

**Data Scientist, iConsult Collaborative at Syracuse University, Syracuse, NY Aug 2020-Present**

* Worked with healthcare staff at Crouse Hospital to identify which factors are most likely to indicate Diabetes.
* Built an ETL pipeline to transform and load raw data into SQL Server in a format suitable for Machine Learning.
* Designed a workflow in Alteryx to build a prediction model used to diagnose over 200,000 patients.

**ACADEMIC PROJECTS**

**Title: Credit Default Risk Prediction Mar-May 2020**

* Performed predictive analytics in Python to determine whether an individual is likely to default on a loan.
* Transformed the data by aggregating and merging multiple data sources using Pandas and NumPy.
* Handled outliers and missing values using techniques like winsorization and imputation.
* Implemented machine learning algorithms like Random Forests, Gradient Boosting and Logistic Regression.
* Used Grid Search and k-fold cross validation for optimization. Obtained a recall value of 72 percent.
* Built an interactive dashboard using plotly dash and deployed the dashboard to the Heroku cloud server.

**Title: Grocery Store Sales Forecasting Oct-Nov 2020**

* Performed sales forecasting in Python for an Ecuadorian grocery store chain using multi-step time series data.
* Leveraged beautiful soup and pandas to perform feature engineering by web scraping geographic data.
* Implemented the bottom-up approach, univariate aggregation, multivariate aggregation, and static supervised learning techniques.
* Implemented Feed Forward Neural Networks, LSTM, GRU and SVM using PyTorch and scikit-learn to predict sales.

**TECHNICAL SKILLS**

* **Programming Languages:** SQL, X++, R, Python, PySpark
* **Soft Skills:** Communication Skills, Time Management, Teamwork, Organization
* **Modules:** Pandas, Seaborn, NumPy, sklearn, ggplot, dplyr, caret, tidyverse, SparkML, PyTorch, TensorFlow, NLTK
* **Software:** Word, Excel, PowerPoint, Jupyter Notebooks, Microsoft Access, Visio, Apache Spark, Tableau, Google Analytics, Microsoft SSMS, Power BI, Git, GitHub, HDFS, Machine Learning, Statistics, Alteryx, AWS, GCP

**LEADERSHIP AND ACCOMPLISHMENTS**

* Captained the Sir MVIT soccer team.
* Lead a team of four to second place in a hackathon hosted by Altice USA, Google, Microsoft, and Infosys.