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, Syracuse University, 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, Visvesvaraya Technological University, Bangalore, India **Jun 2017**
Relevant Coursework: Object Oriented Programming, Design and Analysis of Algorithms **GPA: 3.5**

WORK EXPERIENCE

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

- Collaborate with 4 stakeholders at a major hospital to identify factors that are most likely to indicate Diabetes.
- Build an Extract Transform Load (ETL) pipeline to transform and load raw data into SQL Server in a format suitable for Machine Learning.
- Design a workflow in Alteryx and Python to construct a prediction model to diagnose over 200,000 patients.

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

- Mentored 60 students in concepts like Regression, Artificial Neural Networks, Decision Trees and Ensemble Learning.
- Instructed students on how to work with big data tools such as Hadoop Distributed File System (HDFS), Apache Spark, MapReduce and Databricks.
- Designed course content by building Jupyter notebooks to demonstrate the use of Pyspark for data science.

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

- Utilized 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.
- Trained a 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 performance of existing models by approximately 4% by eliminating model bias.

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

- Created SQL views to query thousands of rows of data in Microsoft SQL Server Management Studio.
- Optimized preexisting SQL queries by reducing execution time by 58%.
- Collaborated with 15 stakeholders to develop and customize the environment based on business understanding.
- Worked in a team of 20 to customize Microsoft Dynamics Ax for a major fashion brand in Brazil.
- Trained 5 junior developers in core concepts of Microsoft Dynamics AX and SQL.

ACADEMIC PROJECTS

Title: Credit Default Risk Prediction | Python | Data Science | Plotly Dash | Statistics

- Transformed data by aggregating and merging multiple data sources in Python using Pandas and NumPy.
- Handled outliers and missing values using statistical techniques like winsorization and imputation.
- Implemented machine learning algorithms like Random Forests, Gradient Boosting and Logistic Regression.
- Leveraged Grid Search and k-fold cross validation for optimization. Obtained a recall value of 72 percent.
- Developed and deployed an interactive dashboard using Plotly dash to the Heroku cloud server (webapp link).

Title: Grocery Store Sales Forecasting | Python | Pytorch | Machine Learning | Artificial Neural Networks

- Performed sales forecasting in Python for an Ecuadorian grocery store chain using multi-step time series data.
- Leveraged beautiful soup and pandas to accomplish feature engineering by web scraping geographic data.
- Utilized bottom-up, 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.
- Deployed the model on Google Cloud Platform by containerizing a streamlit application using Docker (webapp link).

TECHNICAL SKILLS

- **Programming Languages:** Python, R, SQL, PySpark, X++
- **Soft Skills:** Communication Skills, Time Management, Teamwork, Organization
- **Modules:** Pandas, Seaborn, NumPy, Scikit-learn, ggplot, dplyr, caret, tidyverse, SparkML, PyTorch, TensorFlow, NLTK
- **Software:** Excel, Tableau, Power BI, Alteryx, SSIS, Amazon Web Services, Google Cloud Platform, Jupyter Notebooks, Microsoft Access, Visio, Apache Spark, Google Analytics, Microsoft SSMS, Git, GitHub, HDFS

LEADERSHIP AND ACCOMPLISHMENTS

- Captained the Sir M. Visvesvaraya Institute of Technology soccer team.
- Lead a team of four to second place in a hackathon hosted by Altice USA, Google, Microsoft, and Infosys (webapp link).