**PRANAV KOTTOLI RADHAKRISHNA**

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**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**, 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](https://ist707-project.herokuapp.com/)).

**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](https://axial-silicon-303816.ue.r.appspot.com/)).

**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](http://34.68.118.176:9090/)).