

PRANAV KOTTOLI RADHAKRISHNA

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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, 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.