RAMAKRISHNAN PATHANJALEESWARAN

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SUMMARY

Aspiring Data Scientist with a demonstrated history of working in health care industry. Skilled in building predictive models starting from data ingest to feature engineering, data visualization, model deployment & monitoring and feedback loops. Performed large-scale data analysis and developed effective statistical models for segmentation, classification, optimization, time series, etc. Ability to convey complex analysis results to stakeholders in a way it enhances the overall business intelligence.

EDUCATION

New Jersey Institute Of Technology (NJIT), Newark, NJ **May 2020**
Master of Science in Data Science

Indira Institute Of Engineering and Technology, Chennai, TamilNadu **May 2011**
Bachelor of Engineering in Computer Science

WORK EXPERIENCE

Data Science Lead Analyst, Cigna **July 2020 - Present**

- Develop forecasting algorithms and simulations of different complex scenarios in order to help the planning of different processes and flows in a cost effective way.
- Develop an algorithm in R/Python that automates a demand forecasting.
- Assist in the creation of new forecasting tools and models using mathematical and statistical techniques to determine continuous improvement opportunities.
- Develop forecast accuracy metrics as required; review forecast vs. actual demand on a monthly or quarterly basis as necessary and make recommendations to senior leadership.
- To be the key point of contact for data related issues in the operations area and in forecasting related requests for all departments.

Data Science Internship, Cigna **Jan 2020 - May 2020**

- Designed, developed, tested, and maintained Tableau functional reports based on user requirements.
- Expert level capability in Tableau calculations and applying complex, compound calculations to large, complex data sets.
- Worked extensively with Advance analysis Actions, Calculations, Parameters, Background images, Maps, Trend Lines, Statistics and table calculations.
- Strong Dashboard design experience and passionate practitioner of effective data visualization. Familiarity with best practices around visualization and design.
- Scheduled extract refresh for weekly and monthly reports.
- Provided Production support to Tableau users and Wrote Custom SQL to support business requirements.
- Communicate and report observations and results in collaboration with the various stakeholders.

Data Science Internship, Express Scripts **June 2019 - Aug 2019**

- The project focused on identifying fraudulent activities(Fraud, Waste & Abuse) on pharmacy claims data
- Extensive work done in CRISP-DM framework (processes as described below)
  - Data wrangling which involves data extraction through SQL, data cleansing, transformation and normalization
  - Feature engineering through feature extraction, dimensionality reduction(like PCA, LDA & Factor analysis etc), statistical modeling, feature scaling & selection
  - ML clustering models which achieved identification of anomalies/outliers, pattern recognition and correlation of data
  - Model deployment, monitoring and feedback loops

Senior Healthcare Transaction Analyst, AthenaHealth Inc., **Feb 2017 - Oct 2017**

- Worked on various reports related to core claim submission metrics and goals
- Increased the percentage of claims sent electronically & lowered the percentage of claims receiving front end rejections
- Developed reports and dashboards using Excel and Tableau
- Retrieved, parsed and uploaded electronic (ANSI 835) acknowledgement reports into athenaNet

TECHNICAL SKILLS

Programming Languages	Python(numpy, scipy, pandas, tensorflow, scikit, t-SNE),R, Java & SQL
Applications & Tools	Tableau, Apache Hadoop, Alteryx, Jupyter, Spyder, RStudio, Git, AWS EC2, MATLAB, & LaTeX.
Certifications	**CRCS-Institutional by AAHAM** ,BMC's Core Concepts Course, R Programming, Python & The Data Scientists Toolbox by Coursera.
Algorithms	Kmeans,NLP, KNN, Linear Regression, ARIMA, RNN,Naive Bayes, & Decision tree.

ACADEMIC PROJECTS

Implementation of Support Vector Machine

- Developed a model using Python to learn features and classified the data-set in a reduced vector space
- Extracted top 15 features among 29623 total features using "Chi-Square test" for dimensionality reduction
- Scikit-learn was used to test the performance of selected features on SVM linear model and achieved more than 80% of accuracy

NY Stock Price Prediction RNN LSTM GRU

- An Advanced Nero-Fuzzy prediction system that studies historical stock data of a company and predicts opening stock prices for the next day

LEADERSHIP ROLES, ORGANIZATIONS AND SOCIAL SERVICE

- Volunteer for Meals/Food Preparation at Gods Love we Deliver in NYC to improve the health and well-being of those affected by HIV/AIDS, cancer and other serious illnesses