180, N Jefferson St, Apt 402 **Prashanth Thirukkurungudi Sekar prashanthsekar1@gmail.com**

Chicago, IL – 60661([**LinkedIn**](https://www.linkedin.com/in/prashanthsekar/)) ([**GitHub**](https://github.com/Prashanth1194)) ([**Website**](https://prashanth1194.github.io/Personal-Website/)) **+1 (812) 606-9708**

**EDUCATION**

**Master of Science,** Data Science Indiana University Bloomington, USA (GPA: 3.97) Aug 2018 - Dec 2019

**Bachelor of Technology,** Computer Science and Engineering SASTRA University, India (GPA: 3.76) Jun 2012 - May 2016

**TECHNICAL SKILLS**

* Languages: R, Python, C++, SQL, Hive, Spark
* Softwares: R Studio, Jupyter Notebook, Power BI, Tableau
* Libraries/Packages: data.table, dplyr, DMwR, shiny, sparklyR, ggplot2,caret, pandas, numpy, scikit-learn

**WORK EXPERIENCE**

**TransUnion LLC, (Chicago, USA)**

**Senior Data Scientist Apr 2021 - Present**

* Led the design and development of attributes and algorithms that asses the consumer's behavior after an occurrence of a specific condition
* Ushered the Data Science and Analytics Financial Service team’s testing of score model deployment functionality
* Volunteered to work on a Data Science Innovation project to research about various tuning strategies for XGBoost models
* Worked on ad hoc analyses for various tier 1 lenders by collaborating with both internal and external stakeholders

**Data Scientist Jan 2020 – Mar 2021**

* Developed and implemented an attribute set to respond to the rapid industry changes caused by COVID-19 pandemic
* Assisted in the development of various generic models across different verticals within the organization
* Performed statistical analysis to aid a successful negotiation, leading to a partnership with a global human capital management (HCM) solutions organization
* Part of an innovation lab engagement to build various marketing response and underwriting models for a non-prime lender
* Built an interactive dashboard to investigate lenders’ compliance with resolving disputes and aided a presentation given to the US Consumer Finance Protection Bureau
* Facilitated the internal cloud testing initiative to test various cloud based platforms including a presentation to the product team

**Data Science Intern May 2019 – Dec 2019**

* Built a single scorecard solution to predict the likelihood that a consumer would take a certain action to help lenders target the top segment of the population
* Formulated a new definition for the target variable and built a XGBoost classifier as the “Champion model” to predict the same and obtained a lift of 11.2% over the benchmark score
* Developed a challenger model using Regularized Greedy Forest which resulted in an additional lift of 5% when compared to the champion model

**Indiana University (Bloomington, USA) – Research Assistant** **Oct 2018 – Dec 2019**

* Analyzing the factors impacting Opioid and other narcotic overdoses across the country through exploratory data analysis and fixed effects regression models
* Explore the impact of Medicaid work requirement legislation on employment and medicaid enrolments in the states of IN, AK, KY and NH through interactive visualizations and dashboard using PowerBI and ShinyR

**Customer Analytics India Pvt Ltd (Chennai, India) – Data Analyst May 2016 – May 2018**

*Item Recommender System*

* Developed a recommendation system using the "Item Based Collaborative Filtering" algorithm for one of the largest furniture manufacturers in the US and built a predictive model to identify the probability of a customer returning thereby helping in the email marketing campaign
* Implemented logistic regression to predict the probabilities after balancing the data using Synthetic Minority Over Sampling Technique

*Demand Forecasting*

* Collaborated with a team of 3 others to building a forecasting model projecting the sales of newly launched and existing items
* A month-ahead forecast followed by real time daily updates on the forecast were provided using L2 Regularized regression

*Multi Model Fusion*

* Worked on building an automated forecasting tool to provide generic forecasts
* Developed several variants of linear regression followed by machine learning algorithms such as Gradient boosting, Random Forest and a few time series models involving ARIMA, Holt-Winters and Exponential Time Series
* An ensemble of the above-mentioned models was built using a Non-Negative Least Square Regression in R

**ACHIEVEMENTS AND AWARDS**

* Ranked among **Top 4% of the Data Scientists** in the **Kaggle** platform with the highest rank of 1,193 out of 81,627
* **Secured 3 Medals** (1 Silver and 2 Bronze) in **Kaggle** competitions
* One of the Winners of the **NSE-ISB** Code sprint conducted by **National Stock Exchange and Indian School of Business**
* **Developed and licensed an algorithm** built for **Fantasy Premier League** player points projections to a draft platform