

HARI PRASAD RENGANATHAN

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EDUCATION

Columbia University

New York, NY

Master of Science, Data Science

Dec 2022

Coursework: Machine Learning for Data Science, Exploratory Data Analytics and Visualization, Algorithms for Data Science, AI Applications in Finance, Finance and Structuring for Data Science

Kumaraguru College of Technology

Coimbatore, India

Bachelor of Engineering, Mechanical Engineering

Jun 2021

Awarded with meritorious scholarship (\$600) 3 times for excelling in top 5% of the department

SKILLS

- **Tools:** Python, R, MS Excel, Tableau, SQL, WordPress, Snowflake, AWS
- **Libraries/Frameworks:** Pandas, Numpy, Matplotlib, Seaborn, Scikit-learn, Keras, Beautiful Soup, ggplot2, Git, Dash
- **Data techniques:** Neural Networks (Deep learning), Supervised and Unsupervised Machine Learning, Exploratory Data Analysis, Web Scraping, Data Visualization, Hypothesis Testing, Time Series, ETL, Statistics

EXPERIENCE

Take-two Interactive Software, Inc.

New York, NY

Data Scientist

May 2022 - Present

- Contributed to 4 major Enterprise Data Science/ Analytics projects in the Sales team
- Collaborated with ML Engineers and Data analysts to deploy price elasticity outputs from AWS S3 buckets into production as an interactive dashboard using Dash
- Optimized sales-forecasting model by introducing ARIMA and improved performance by 33%
- Mined and analyzed data of 72 different companies to perform competitive analysis using hypothesis testing leveraging Snowflake, SQL and Tableau
- Performed market research of company's 12 subsidiaries and presented the patterns to Marketing department

Ask2AI

New York, NY

Financial Data Scientist Spring Intern

Jan 2022 - May 2022

- Forecasted future returns and volatility using 650-dimensional macro-economic time-Series data
- Applied rolling window Principal Component Analysis (PCA); built a predictive model using LSTM Neural Networks

GoTTR

New York, NY

Founding member & Data Scientist

Jul 2021 - Dec 2021

- Regularized Data-Scraping & Data-Modeling for 100 GB which reduced manual work of 4 hours to few seconds
- Led a team of 5 to computerize the Data Management on Google Cloud (GCP) and established an Email-Alert system which saved \$7000 a month (Tools used: Python, SQL, Pandas, Scikit-learn)

DADDYODA

Coimbatore, India

Co-founder & Marketing Data Scientist

Jul 2020 - Jul 2021

- Automated 50+ weekly promotional emails to 10k+ users using Python increased efficiency by 30%; performed marketing analytics using Tableau which increased the user count by 50%
- Predicted the sentiments of customer reviews using text analytics which reduced Customer Acquisition Cost by 20%

PROJECTS

Time Series Forecasting and Analysis of Onion Supply Chain (Research Study)

Jan 2022

Published in the "Journal of Logistics, Supply Chain and Retail Management – Volume 5 Issue 1"

- Collaborated with 3 members and implemented Exploratory Data Analytics (EDA), predictive analytics and forecasted onion prices for 2 years using Autoregressive Integrated Moving Average (ARIMA) model
- Performed macro-economic analysis and ETL pipeline using Tableau to optimize the supply chain model

Ranking US stocks using machine learning based on financial ratios (Columbia University)

Dec 2021

- Gathered live financial analysis ratios of S&P 500 stocks using Beautiful Soup and SQL for database management
- Trained a Random Forest Model using Hyper-parameter tuning (GridSearchCV) to rank US stocks

Rental Price Analysis for New York City (Columbia University)

Nov 2021

- Analyzed rental market in New York City and performed Hypothesis testing using R programming
- Designed a Web-interface and rendered using Github workflow - <https://karveandhan.github.io/rental-price/>

Stock Price Prediction using EV/EBITDA valuation model (Columbia University)

May 2021

- Collected financial data and performed data mining and visualization techniques using BI tools like Tableau
- Predicted future 12 months price of Index stocks using statistical analysis of Enterprise Value & EBITDA model