

HARISHANKER KETHAVATH

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PROFESSIONAL SUMMARY

Experienced Data Scientist with over **3** years of expertise in developing comprehensive solutions with large data, predictive modeling, in-depth data-driven analysis, and effective communication of findings to diverse stakeholders. Demonstrated success in enhancing business outcomes by increasing quarterly revenue by **\$400,000**.

PROFESSIONAL EXPERIENCE

University of Central Florida

Jan 2023 - Present

Data Scientist (Research in AI, NLP)

- Conduct AI research with **PyTorch** and **Graph theory** to boost **Neural Network** modularity by **70%**.
- Built a Question Answering System on **SQuAD 2.0** with **BERT**, **BioBERT**, and T5 Transformer. Achieved an **85% Cosine Similarity** score, reaching **97%** with Human-in-the-loop using **GPT-3.5**.

CognitiveRoots Software Solution

Feb 2021 - July 2022

Data Scientist

- Worked with **10+** cross - functional team members to develop machine learning (**XGBoost**, **RF**, **LightGBM**), Deep Learning (**ANN**) methods in Python which identified **300** potential physicians with an AUC score of **89%**.
- Developed guided, predictive modeling strategies that identified **200** potential patients early reducing treatment initiation time by **40%**.
- Analyzed **1TB** IQVIA LAAD Data in Snowflake using **100+ SQL** Scripts to determine **18** Key Performance Indicators (**KPIs**) for treatment initiation.
- Created internal data capabilities, **reduced vendor** dependency by **80%** and better shared insights between technical and non-technical team members.

APSIS Technologies

May 2019 – Feb 2021

Data Scientist

- Worked cross-functionally with **10+** engineers from marketing, sales, and product teams to develop and implement a **Python**-based machine learning model achieving **90%** accuracy.
- Achieved a **25%** increase in upsell conversion rate, contributing an additional **\$400,000** to quarterly revenue.
- Researched **2+** Dimensionality Reduction, **4+** Clustering algorithms for customer segmentation, enabled marketing campaigns. Advertising and marketing spend fell **40%** with customer engagement up **20%**.
- Sales team saved **120+** hours per month, **\$250,000** sales budget showing customers for upselling quarterly.

Data Scientist

- Developed a Predictive Model for customer churn using **XGBoost** which increases platform revenue by **20%** and Customer retention by **15%**.
- Conducted a comprehensive analysis of **100GB** of member data from MySQL, MongoDB database to uncover customer behavior patterns that led to a **10%** increase in user engagement.
- Improved Time to insights by **20%** using dynamic data using **Tableau**.

TECHNICAL SKILLS

Programming: Python (Pandas, NumPy, Scikit-learn, SciPy, Seaborn, Matplotlib, TensorFlow, Keras, PyTorch), R, SQL, C

Data Engineering & Databases: ETL, Hadoop, Hive, Apache Spark, MySQL, MongoDB

Tools & Technologies: Tableau, Power BI, Azure, AWS, Linux, Docker, Kubernetes, Git, Excel

Modeling: Machine Learning (Clustering, Classification, Recommendation), Deep Learning, NLP, Statistical Modeling.

EDUCATION

University of Central Florida

Orlando, FL

Master's in computer science, (GPA: 4.0/4.0)

Dec 2023

CERTIFICATIONS:

[AWS Certified Developer-Associate Certification](#)