

Karthick Venkateswaran

Data Analyst / Data Scientist / Business Analyst

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Location: Chennai, India.

Summary

Aspiring **Data Analyst** with more than two years of **Python** and **Tableau** experience and a strong foundation in statistics and data science. Proficient in **Data Wrangling, EDA, Statistical Modelling, Data Visualization, Machine Learning, and Deep Learning** model building. Capable of quickly grasping business requirements and providing insightful information to support decision-making.

Professional Experience

Company	Role	Time Period
ICMR – NIRT	Senior Data Analyst	Feb 2021 – Mar 2023
ICMR – NIE	Data Analyst	Dec 2019 – Apr 2020
Seaport AI	Data Analyst	Jul 2019 – Oct 2019

Projects

- Studies that predict and compare the performance of Machine Learning algorithms including **Logistic Regression, Decision Tree, Random Forest, and SVM** have been utilized to identify both forms of TB, i.e., Pulmonary and Extra Pulmonary Tuberculosis. - **SQL, Python, and Tableau**
- Application of **Artificial Intelligence** in digital chest radiography reading for pulmonary tuberculosis screening with image dataset. Used **Deep CNN** approach to accurately classify TB from healthy controls. - **SQL, and Python**
- Identify drug resistance linked TB mutations overlooked by Diagnostic techniques using next-generation sequencing methods based on quota sampling approach across India. A **Dashboard** was created using tableau after performing **Diagnostic Statistics** and other statistical analyses. - **Python, R, and Tableau**
- Developed a **Sampling Design** to investigate the impact of blood pressure and sugar levels throughout Tamil Nadu. The **Graphs and Dashboard** were created in Tableau and used **Inferential Statistics** to analyse the data. - **R, SPSS, and Tableau**

Skills

- Tableau • • • • •
- Python • • • • •
- R Programming • • • • •
- IBM SPSS • • • • •
- MS-Excel • • • • •
- SQL • • • • •

Area of Expertise

- **Supervised Learning:** Linear Regression, Logistic Regression, Decision Tree, KNN, Naive Bayes
- **Unsupervised Learning:** PCA, K-Means, Hierarchical Clustering
- **Ensemble Learning:** Random Forest, Gradient Boost, XG Boost, Ada Boost
- **Time Series:** ARMA, ARIMA, Auto Regression, Prophet
- **Deep Learning:** ANN and CNN

Education

Course	College	Period	CGPA (%)
PG Program in Data Science	Simplilearn Purdue University	Sep 2021 – Oct 2022	-
M.Sc. Statistics	Loyola College	Jun 2017 – Apr 2019	76.4
B.Sc. Statistics	Loyola College	Jun 2014 – Apr 2017	65.5

Certifications

- [Post Graduate Program in Data Science](#)
- [Tableau 10 A-Z: Hands-On Tableau Training for Data Science](#)
- [Machine Learning, Data Science & Deep Learning with Python](#)
- [Neural Networks & Deep Learning](#)
- [Getting Started with SAS Programming](#)
- [SQL for Data Science](#)

Academic and Mock Projects

- Data Analysis & Model Building with Geostatistics and Image Mining Techniques
- Stock Prices Prediction using Machine Learning and Deep Learning Techniques
- Loan Prediction using Binary Logistic Regression & Data Mining Techniques
- Twitter Sentiment Analysis using NLP Techniques

Achievements

- [Indian catalogue of Mycobacterium Tuberculosis mutations and their association with drug resistance - 2022](#)

Languages

- **English**
- **Tamil**