

Nikhil Narayane

Prospective data scientist who strives to pose and answer questions with quantitative driven insights



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[LinkedIn](#)



[GitHub](#)

TECHNICAL SKILLS

Expertise:

Statistical Analysis, Text analysis, Machine Learning, Data Mining, Database Design Data Preprocessing, ETL, Predictive Modeling

Machine Learning Algorithms:

Linear & Logistic Regression, Clustering, Association Analysis,

Analytical Tools:

Tableau, Power BI, MS Excel

NLP Tools:

LDA, Word2Vec, Doc2Vec

Programming:

R, Python (Keras, NumPy, pandas, matplotlib, scikit-learn, beautifulsoup)

Database: MySQL,

MongoDB, AWS, Hadoop

Technical Certification:

Automate the monotonous operations with Python, Statistical Process Control

LANGUAGES

English

Full Professional Proficiency

Hindi

Native or Bilingual Proficiency

Marathi

Native or Bilingual Proficiency

EDUCATION

Ph.D., Business Analytics & Statistics

The University of Tennessee at Knoxville

08/2021 - Present,

3.86/4

M.S. in Business Analytics

The University of Texas at Dallas

08/2019 - 08/2021

3.83/4

GRADUATE PROJECTS

Text Analysis: Analyze BGT job postings data

(08/2021 - 12/2021)

- Developed and implemented several Natural language processing models such as LDA, Sentiment Analysis, Word2Vec, Doc2Vec
- Analyzed BGT job postings data using Word2vec, Doc2Vec and several other libraries such as regex, pandas, numpy and submitted a short research paper (under review)
- Created a pipeline for analysis of textual data from preprocessing to final output using OOPS

Econometrics: Replication of research papers using STATA

(08/2020 - 12/2021)

- Replicated the following research papers in my own words including statistical analysis
- Replication of 'Replication of "Experimental Estimates of Education Production Function" by Allan Krueger, "Sticking with your vote"
- Hands on statistical methods such as Hypothesis testing, t-test, p values, chi square test
- Hands on several econometric methods such as Difference in Difference method, OLS, IV

Frontline Analytic Excel Solver

(08/2020 - 12/2020)

- Linear Programming, Time Series Analysis and Queuing Theory
- Optimized the constraints and found optimal solution for the linear programming objective using Standard LP/Quadratic engine and Non-Linear GRG Engine
- Formulated and developed different time series models such as Holt Winter model, Seasonal affect plus additive effect
- Programmed model for M/M/3 queue with finite length, infinite length and M/G/M queue

Python Project: Predictive Analysis on Health Survey Data of F&B

(01/2020 - 05/2020)

- Cleaned the dataset which originally had 1300 columns and made new smaller tables with data relevant to the heading
- Utilized data visualization tools to make clear and concise visual representations of data
- Performed descriptive statistics on the data
- Performed Linear, Logit and Multinomial Regression to study the behavior of snacks, eating habits on the purchasing tendency of the customer

SQL Project: Database Design and Query development

(08/2019 - 12/2019)

- Created 3nf database design using good practices for design and normalization using MySQL Workbench • Imported the data into the normalized tables using MySQL workbench
- Ran queries against the database using MySQL and MongoDB and compared the results

R Project: Predictive analysis of FIFA players' salaries

(08/2019 - 12/2019)

- Carried out the cleaning, tidying and plotting of the data using RStudio
- Prepared scripts to ensure proper data access, manipulation and reporting functions
- Used random forests to predict the wages of FIFA players

TEACHING ASSISTANT

Haslam School of Business

The University of Tennessee, Knoxville

08/2021 - Present,

Key Tasks

- Performed all assistant teaching duties including mentoring, lecturing, researching and clerical help
- Mentored 15+ students on Qualtrics survey
- Held doubt solving sessions for STAT 201 Intro to Statistics, BAS 320 Regression Modelling, STAT 251 Statistics for Managers
- Graded papers and ensured academic integrity