

TANMAY BAGDIYA

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EDUCATION

University of Maryland

M.S. in Information Systems, GPA 3.80/4.00

College Park, MD
Expected Dec 2022

Terrapin Scholarship –merit-based scholarship for top 5% of students

Relevant Courses: Data Model and Decisions, Data Processing with Python, Managing Digital Business, Computer Simulation, Project Management, Data Mining and Predictive Analytics, Big Data and Artificial Intelligence

University of Pune

B.E. in Computer Engineering, GPA: 8.57/10.00

Pune, India
May 2019

Relevant Courses: Database Management Systems, Operations Research, Data Analytics, Machine Learning, Artificial Intelligence

EXPERIENCE

University of Maryland

(To Professor Anil Gupta)

College

Data Science Research Assistant (AWS S3, EC2, Python, BeautifulSoup, Topic Modelling)

Jan 2022 - Present

- Utilizing NLP techniques and BERT transformer to analyze data on job descriptions and earnings call transcripts with the goal of measuring alignment between what companies do versus what they say.
- Scraped, cleaned and labelled job descriptions, earnings call transcripts of Russell 1000 corporations for further data analysis and modelling.
- Leveraging AWS S3 storage and AWS computational capabilities to scrutinize big data of size greater than 2 TB.

Barclays

Graduate Analyst (Tableau, Python, SQL, PCSM, SAS, Java)

Pune, India
Jul 2019 - Jul 2021

- Reduced credit card application decision time by 23% by replacing the existing legacy system by API based system.
- Collaborated with major UK credit bureaus to gather and analyze data to be used in application development.
- Formulated business strategies using Power Curve Strategy Management & SQL to streamline card application processing.
- Generated batches using SAS to perform strategy testing on 1000 plus applications to avoid financial loss due to downtime.
- Generated dashboards leveraging tableau to generate business insights and communicate findings with stakeholders
- Global Recognition Award at Barclays for successful delivery of project that allowed customers balance transfer.

SKILLS

- Tools: PCSM, Jenkins, Git, Agile Central, Jira, Tableau, OpenShift Cloud, Project Libre, Palisades DecisionTools, Google Colab
- Data Science: Classification, predictive modeling, NLP, Time Series, Unsupervised learning
- Programming languages: Python, CPP, Java, SQL, SAS, R
- Certifications: AWS Cloud Practitioner certificate - AWS, Data Scientist Track with Python - Datacamp, Financial Analyst - LinkedIn

PROJECTS

Classifying Users and Identifying User Interests by Using Social Media Interactions (LSTM, Keras, flask, NLTK, Embedding)

- Devised a system for a social media startup to classify users according to behavior and interest to serve better recommendations
- Scraped data from various social media sites such as twitter, YouTube and prepared the data for the supervised learning model.
- Employed semantic, contextual and sentiment analysis leveraging NLP techniques and LSTM to achieve an accuracy of upwards of 90%.
- Facilitated the startup to make the system compatible for easier integration with YouTube, Facebook and Twitter.

Sign Language Recognition Using Computer Vision (Keras, Image Processing, CNN, Classification, Python)

- Conceptualized a system by applying image recognition techniques to facilitate communication with specially-abled individuals.
- Designed an optimum system by comparing the performance of various algorithms such as SVM, CNN, KNN and Naïve Bayes.

Health Insurance Cross-Sell Prediction (Python, Matplotlib, Pandas, Numpy, Sklearn, Seaborn, Google Colab)

- Developed a predictive model utilizing machine learning techniques to identify cross-selling opportunities.
- Performed Exploratory Data Analysis and data visualisations to derive interesting results from data to deliver aid business decisions.

Implementation of Stock Market Analyzer using ARIMA model (Python, ARIMA, SARIMA, Time Series)

- Devised a time series prediction model applying ARIMA and SARIMA for predicting Microsoft Corporation stock prices.
- Analysed historical opening and closing values of Microsoft stock to produce correlation with major industry events.

Implementation of Inventory Optimisation Model using Monte Carlo Simulation (R, @Risk palisades, Winter-Holt, Time Series)

- Developed a time-series model for forecasting future sales demand using Winter-Holt exponential smoothing in R based on historical data
- Ran multiple simulations for determining the optimal target inventory to generate maximum profit using @RISK palisades DecisionTool

LEADERSHIP

- Spearheaded a team of 50 individuals while coordinating logistics, finances and marketing of college technical fest to ensure a hassle-free experience for 200+ attendees.