

DIVAYE BEHAL

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EDUCATION

Purdue University, West Lafayette, USA

Aug 2023 - AUG 2025

MS, Computer and Information Technology

Coursework: *Applied Data Analytics, Business Analytics, Data-Driven Cloud application(AWS,GCP), Advanced Data Management(AWS), Statistical Programming and Data Managment, NLP Research(educational chatbot), Database Security, Advance Project Management in Technology, Systems Development, Cloud,Data Centers and Networks*

Bharati Vidyapeeth University, Pune, India

July 2019 – July 2022

Bachelor of Computer Application, Computer Science and Big Data

Coursework: *software engineering, Data Warehousing, Data Mining, Big Data, Data structures and Algorithms, Business Analytics, object Oriented Analysis Design, Algorithm and Program Design, Business Mathematics, Statistics, DBMS*

EXPERIENCE

Purdue University

Aug 2023 – Present

Graduate Teaching Assistant

Indiana,USA

- Tutored students in object-oriented programming languages like Python and relational database languages such as SQL.

Jak Software

Aug 2022 – July 2023

IT Data Analyst Intern

New Delhi, India

- Designed and managed data pipelines on AWS using services like Amazon RDS, DynamoDB, and S3 for integrating structured and unstructured data.Preprocessed and cleaned data using AWS Glue and Lambda to ensure data quality and consistency.Performed statistical analysis and advanced analytics with Amazon SageMaker to identify profitable customer segments and optimize marketing strategies.
- Monitored real-time campaign performance using Amazon QuickSight and implemented data-driven adjustments to maximize ROI.

PROJECTS

UbersLyft Analysis | Predictive Analytics, Descriptive analytics, Power BI, Machine Learning

October 2023

- Enhanced data quality through Kaggle data extraction, rigorous preprocessing, null value imputation, and IQR-based outlier removal, leading to a 15% increase in data accuracy.
- Provided data-driven insights that contributed to a 10% increase in cost-effectiveness, revealing that Lyft has higher prices than Uber in terms of the cost of rides.

AI For Education | NLP, Python, Machine Learning

June 2024

- Collected data using ChatGPT API in Python and applied NLP preprocessing techniques such as stemming, lemmatization, sentence segmentation, and stop word removal.
- Compared semantic scores across profiles with scores greater than 75% and used Word2Vec to identify response variations by ethnicity, major, and experience.

Crime Affect On Real Estate | Predictive Analytics,Descriptive analytics,Machine Learning

December 2023

- Cleaned data: addressed 10% missing values and fixed 5 skewed columns.
- identified and removed 50+ outliers; created scatter plot showing a 30% decrease in real estate prices in high-crime areas.
- Google Cloud BigQuery trains a machine-learning model that accurately predicts the NSA index based on crime rates.

TECHNICAL SKILLS

Languages & Other IT Skills: Python, MySQL,NoSQL, MongoDB, spark, Google Big Query, Web Scraping, Statistical Analysis System(SAS), Salesforce

Python Libraries:: Numpy, Pandas, NLTK, Scikit-Learn, Tensorflow, Keras, Matplotlib, Statsmodel, pip, Beautiful4soup

Data Visualization tools Power BI,Tableau

Machine Learning: Supervised and Unsupervised algorithms

Statistical Techniques:: Descriptive Statistics, Hypothesis Testing, Probability Distributions, Correlation and Regression Analysis, Sampling Techniques, Time Series Analysis

Cloud Computing: Google Cloud Platform,Amazon Web Services(AWS)