

AKASH BHAPKAR

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Education

Indiana University Bloomington

Master of Science in Data Science, GPA: 3.77/ 4.0

May 2023

Indiana, USA

Savitribai Phule Pune University

Bachelor of Engineering in Computer Engineering

Jun. 2017

Pune, India

Relevant Coursework

- Data Structures
- Applied Algorithms
- Artificial Intelligence
- Machine Learning for Signal Processing
- Data Mining
- Advanced Database
- Graph Analytics

Experience

Tata Consultancy Services

Dec. 2017 – Jul. 2021

Data Analyst

Pune, India

- Extracted, processed and analysed (ETL) large scale data stored in SQL database, Excel and SharePoint
- Built powerful dashboards and reports in PowerBI, Tableau and visualized meaningful insights to help customers
- Developed and supported multiple Python and C# .net end-to-end applications by engaging with cross-functional teams
- Utilized python and powershell scripts to automate numerous technically complicated processes for customers which reduced manual intervention and increased the productivity for end users
- Coordinated with various business partners to successfully deliver the projects meeting user requirements

Projects

Air Quality Index Prediction | Python, Machine Learning, Web Scraping

Dec. 2021

- Implemented python scripts to scrape two decades of historic air quality data from multiple websites for the most particle polluted city in the US - Fairbanks, Alaska
- Performed exploratory data analysis (EDA), developed prediction model with Random Forest Classifier which correctly depicted underlying correlations and predicted the air quality index with 92% accuracy

Car VPN Dashboard | Python, SQL, PowerBI

Jan. 2021

- Designed a pipeline to visualize the features of sensors attached to the cars by utilizing real time data from the servers
- Engineered an automated system to fetch, store data in Azure SQL Server; analyzed, pre-processed and visualized using Microsoft PowerBI

Smart Document Viewer Application | SharePoint Framework, TypeScript, Tableau

Feb. 2019

- Designed and implemented an ergonomically feasible SharePoint Framework application to access confidential documents
- Constructed a Tableau dashboard to showcase daily application traffic and statistics to the clients

A Friend Recommendation System using Lifestyle Similarity Measure | Python, MongoDB, JavaScript

Jun. 2017

- Architected a friend recommendation system based on collaborative filtering of annotated user posts data
- Utilized NLP techniques to cluster users based on lifestyle measures and fitted LDA algorithm to match the similar characteristics and further recommend the users to each other

Technical Skills

Programming Languages : Python (Pandas, Numpy, Sklearn, Matplotlib, Networkx), R, C#, .Net, C++, Java, JavaScript, React, HTML/CSS, SQL

Tools : Microsoft PowerBI, Tableau, Jira, Pycharm, Rstudio, PyTorch, TensorFlow, Django, Flask, Neo4j, Google Cloud Platform (GCP), Azure, GitHub, Hadoop, Hive, Visual Studio, SharePoint, Excel, Jupyter Notebook

Skills : Machine Learning, Supervised, Unsupervised Learning, Classification, K-NN, Regression, Naive Bayes, Decision Tree, Natural Language Processing, Text Mining, Statistics, Calculus

Databases : MySQL, Postgres, MongoDB, HBase

Operating Systems : Windows, Linux, MacOS

Publications

A Better Semantic based Friend Recommendation System for Modern Social Networks.

Dec. 2016

International Journal of Computer Applications ([link](#))