

ADARSH SHANKAR

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EDUCATION:

- Master of Science - Computer Science. (GPA: 3.7) (09/2022 – 06/2024): **DePaul University | Chicago, IL.**
- Bachelor of Engineering - Computer Science. (08/2015 - 07/2019): **VTU | Karnataka, India.**

TECHNICAL SKILLS:

- Core Skills:** Data Analytics, Data Visualization, Statistical & Machine Learning Methodologies, Data Pipelines.
- Languages:** Python, SQL, R, JavaScript, C++, Java, C#, C, PHP.
- Frameworks and Libraries:** Pandas, NumPy, matplotlib, seaborn, Scikit-learn, TensorFlow, HTML5, CSS3, STL, ReactJS, NodeJS, Express.js, REST API, XML, JSON, ASP.NET.
- Databases:** MySQL, SQLite3, MongoDB, Oracle, PostgreSQL.
- Cloud-based Application & Methodology:** AWS (Lambda, Glue, S3, EC2), GCP, Agile Scrum, SDLC
- Tools and Others:** Tableau, Power BI, MS-Excel, MS office suite, Git, Heroku, Jenkins, Firebase, PowerShell, SolarWinds, Frontend, Backend, Full-Stack, Data Structures and Algorithms, Object Oriented Programming, Distributed Systems.

ACADEMIC PROJECTS:

Car Crash Data Provided by Cambridge Police Organization.

- Conducted exploratory data analysis on a **1000+** record Cambridge crash dataset, employing visualizations, correlation analysis, and a Decision Tree Classifier model with **75.6%** accuracy for accident prediction.
 - Implemented feature selection techniques, pinpointing the top **5** influential features - traffic control device type, vehicle action pre-crash, traffic way description, Gini index, and sequential feature selection methods.
- Tech Stack:** Python, Pandas, NumPy, Matplotlib, Seaborn, Scikit-learn, Excel.

Analysis of Titanic Dataset.

- Executed data analysis on Titanic dataset, recognizing survival factors, and Interpreted machine learning models up to **81%** accuracy with feature engineering techniques.
 - Utilized Python libraries for data visualization, preprocessed data through encoding and imputation, and optimized model performance by **5%** using recursive feature elimination.
- Tech Stack:** Python, R, Pandas, NumPy, Matplotlib, Seaborn, Scikit-learn, Excel.

Interpretation of Corona Virus disease (Covid-19) using Tableau.

- Visualized extensive COVID-19 datasets using **Tableau**, creating interactive global and India-specific dashboards with total cases, and presented comprehensive pandemic progression through data visualization techniques.
- Mapped **5+** user-friendly Tableau dashboards offering insights into disease trends and patterns across **100+** regions, enabling informed decision-making for public health and policy based on data-driven analysis.

WORK EXPERIENCE:

Software Engineer Intern, Oak Street Health, Chicago, USA.

June 2023 – August 2023

- Migrated a multi-page user experience into a single page app using React, improving customer engagement by 10%.
 - Spearheaded the transition to ReactJS, improving website performance and enhancing user experience by 40%.
 - Incorporated third-party APIs into applications, which improved web scalability by 30%.
- Tech Stack:** React, JavaScript, TailwindCSS, HTML5.

Systems Engineer, Infosys Limited, Bangalore, India.

December 2019 – September 2021

- Revamped 70% of the user interface screens for the “Medtronic” web application, enhancing usability for over 100,000 users across 150 countries using React and Tailwind.
 - Migrated the legacy User Interfaces written in JSP and Angular to React using Micro Frontend Architecture.
 - Adhered to agile methodologies and SDLC practices with proper unit, integration and performance testing.
 - Optimized and reduced the app build bundle size by 70-80% by extensive debugging. It led to quite faster app load.
- Tech Stack:** JavaScript, React, TailwindCSS, Jenkins, JSON, MySQL, HTML5.

Data Analyst Intern, Ventalyst Business Solutions, Shivamogga, India.

July 2018 – October 2018

- Developed and curated **8+** datasets for modeling using Python and R, improving data analysis efficiency by **25%** through effective data cleaning, preprocessing, train/test set partitioning, and feature engineering.
 - Conducted exploratory data analysis using seaborn, ggplot, Tableau, and Power BI, leading to a **30%** increase in actionable insights for business decisions.
 - Implemented ML techniques such as regression, classification, and clustering to predict and explain datasets, enhancing model accuracy by **20%**.
- Tech Stack:** Python, R, MySQL, Excel, AWS, Tableau, Power BI.