ADARSH SHANKAR

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EDUCATION:

- Master of Science - Computer Science. (GPA: 3.8) (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**

- Designed and implemented two automation bots using PowerShell, reducing the TechOps team's workload by **30%**, saving approximately **40 hours** per week.
- Enhanced operational efficiency by **45%**, leading to faster issue resolution and improved system performance in SolarWinds Orion and Database Performance Analyzer.
  Tech Stack: PowerShell, SolarWinds Orion, Database Performance Analyzer, MySQL.

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.
- Redesigned over **80%** of specifications and decode/encode/dependencies/pertinent rules for device parameters.
- Tested and debugged the implemented code using the Medtronic-defined test tool, Bench Programmer, reducing errors by **40%**.
- Created over **700+** test cases, ensuring comprehensive coverage and reliability.
- Optimized application efficiency by **35%** using the Test Runner tool.
  Tech Stack: C#, JavaScript, ASP.NET, Jenkins, JSON, MySQL, Html, CSS, 2090 Programmer.

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.