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

- Developed two automation bots using a scripting language called PowerShell, which reduced the workload of the TechOps team by an impressive 30%. This saved the team approximately 40 hours of work per week.
- This led to a significant 45% improvement in operational efficiency, resulting in faster issue resolution and better 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

- Modified 70% of the User interface screens for the "Medtronic" web application used by 100,000+ people across 150 countries.
- Overhauled over 80% of specifications and Decode/ Encode/ Dependencies/ Pertinent rules for device parameters.
- Tested overall code using the Medtronic Defined test tool called Bench Programmer and reduced 40% of errors to get the desired result.
- Verified the existing simulation files and wrote more than 700 test cases.
- Used the Test Runner tool as per requirement which optimized and boosted the efficiency of the application by 35%.
  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

- Created 8+ datasets for modelling in Python, R via cleaning, pre-processing, train/test set partition, feature engineering, exploratory data analysis utilizing seaborn, ggplot packages, Tableau and Power BI tools.
- Applied Machine learning techniques - Regression, classification, clustering to predict, explain datasets.
  Tech Stack: Python, R, MySQL, Excel, AWS, Tableau, Power BI.