ADITHYA PRANEETH PARUPUDI

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EDUCATION

University Of Massachusetts Amherst | Amherst, MA | GPA: 3.5/4.0 — Aug 2022 – Present
M.S in Data Analytics
Relevant Coursework: Data Science in R, Text-As-Data, Machine Learning, Quantitative Analysis, Analysis of Discrete Data

Jawaharlal Nehru Technological University | Hyderabad, India — Aug 2015 - May 2019
B. Tech in Computer Science and Engineering
Relevant Coursework: Introduction to Analytics, Big Data Analytics, Database Management Systems, Probability & Statistics, Data Warehousing and Data Mining, Mathematical Methods

TECHNOLOGIES

Programming Languages	: Python (Pandas, NumPy, Scikit-learn), R, Shell Scripting, SQL
Databases	: MySQL, PostgreSQL
Data Visualization Tools	: Tableau, MS Office, Google Data Studio
Tools	: Git, Google Big Query, SQL Server, ServiceNow, Oracle SOA Suite, Miro

EXPERIENCE

University of Massachusetts Amherst, Amherst — Dec 2022 - Present
Role: **Developer**

- Created DACSS careers website site to showcase 50+ student portfolios using Quarto, Bootstrap, HTML, CSS
- Enabled workflows and site deployment using Github Pages and Git
- Automated resume creation using R's "vitae" package
- Classroom assistant for Text-As-Data, managed Slack channels and Zoom
- Fixed python web-scraping code absed on "beautifulsoup" package

Tech Mahindra, Hyderabad — Dec 2019 – July 2022
Role: **Software Engineer** | Project: **GE Healthcare** | Technology: Oracle SOA 12c

- Utilized the Python-based Dash framework, Flask, Plotly.js to create an interactive web application that displayed real-time ticket status data from ServiceNow, including SLA vs time-elapsed metric for high-priority tickets.
- Presented actionable insights into the performance of 40+ teams to leadership, empowering them to optimize business processes through data-driven decision-making.
- Reduced data integration time by 50% by developing 10+ reusable integration services in Oracle SOA software, resulting in a more efficient and streamlined data integration process.
- Collaborated with cross-functional teams to gather and analyse data requirements, and developed data models and data mapping documents to support data integration initiatives.
- Ensured code efficiency and reusability by utilizing SVN for version control, Jenkins for builds and MYST for integration deployment.
- Improved system throughput by 25% by optimizing SOA infrastructure, including tuning the database, web server, and application server settings, resulting in faster data processing times and improved user experience.
- Reduced overall integration downtime by 60% by implementing effective error handling and reporting, resulting in improved system uptime and minimized business interruptions.
- Maintained a complex dashboard using Python, shell scripts, and SQL which showed health of 200+ integrations in lower environments
- Trained in Oracle Integration Cloud (OIC) to assist in future platform upgrades

PROJECTS

- **Youtube Trend Analysis** – This project aims to uncover insights about popular videos on YouTube. The data is extracted, transformed and loaded using Python, AWS (S3, Glue, Athena, Lambda, QuickSight), and SQL for analysis.
- **Twitter Data Analysis** – Built a data pipeline to extract data from Twitter using Python and storing the data on Amazon S3 buckets using Airflow.
- **Credit Card Approval Predictions** - Developed a machine learning model using logistic regression to predict credit card approval rates. Utilized Python, numpy, pandas, sklearn, and machine learning techniques to increase accuracy by 10%.
- **Structural Topic Modeling of Celebrity Personality Trends** - Conducted a comprehensive case study of 100 famous people, revealing patterns in personality traits and contextualizing findings through demographic, professional, and background characteristics. Built using R, topic modeling, and the tidyverse package.
- **Uncovering Trends in the NIFTY50: An EDA Case Study** - Conducted a comprehensive analysis of the stock trends for the top 50 Indian stocks between 2000 and 2021, utilizing time series analysis to identify the best and worst performing stocks and observing market trends. Utilized R, ggplot, and the tidyverse package.

CERTIFICATONS

- Google Data Analytics Professional Certificate (Google, 2023)
- Python Programming (Udemy, 2021)
- Microsoft Cloud Fundamentals (2018)

VOLUNTEERING

- Community Volunteer | Isha Foundation (2018 – 2021) – Volunteered in many flagship programs conducted by Isha, thus improving my organizational and communication skills
- Student Volunteer | Swecha.org (2018-2020) – Spread awareness to opt for open-source technologies like Ubuntu, Drupal, Mozilla
- Member of Student Council (2017 – 2018) – In charge of conducting technical fests, paper and poster presentations in my college