Pranav Dange

(447) 902-0774 pranavdange@hotmail.com https://linkedin.com/in/pranavdange pdange21

Education

University of Illinois Urbana-Champaign **August 2022 - May 2024**
Master of Science in Information Management (GPA : 4.0/4.0)
Relevant Coursework: *Data Warehousing and Business Intelligence; Data and Statistical Models, Methods of Data Science*

University of Mumbai(FR.CRCE, Bandra) **August 2014 - May 2018**
Bachelor of Engineering in Information Technology (CGPA : 7.56/10.0)
Relevant Coursework: *Database Management Systems; Cloud Computing; Big Data Analytics; Data Visualization*

Technical Skills

- **Programming Languages**: Python, PySpark, SQL, PL/SQL, R, Java, C, C++, JavaScript, PowerShell, XML
- **Tools/Services/Libraries/Platforms**: Tableau, Microsoft Power BI, Jira, GitHub, Jenkins, Postman, Jmeter, MS Excel, VBA, Airflow, NumPy, Pandas, Seaborn, Matplotlib, Plotly, Scikit-learn, NLTK, Spacy, MS SQL Server, PostgreSQL, MongoDB, SharePoint, Spark, Oracle, Neo4j, Alteryx, MATLAB, Kafka, Hive, Docker
- **Cloud Technologies**: AWS(Lambda, S3, QuickSight, DynamoDB, Athena), Microsoft Azure(Databricks, Data Factory, Synapse Analytics, HDInsight, Data Lake Storage, Stream Analytics)

Certifications

- **Cloud Certifications**: **AWS** Developer Associate, **Azure** AZ-900, Designing and Implementing an **Azure AI Solutions** AI 100
- **Certifications**: **Google Analytics** Advanced, **Linkedin** and **HackerRank Python** and **Advance SQL** Assessment Test
- **Coursera Certification**s: Getting Started with **AWS Machine Learning**, Introduction to Data Science in **Python**

Work Experience

Caterpillar - Digital and Analytics Intern **May 2023 - Present**

- Developed a **AWS Lambda** and **Boto3** powered pipeline, efficiently fetching approximately **9 million records** from the cloud and filtering critical data via API calls. Utilized this curated data to create an interactive **QuickSight** dashboard, spotlighting **KPI**s. Thus enhancing the decision-making process, improving data-driven insights and boosting operational efficiency by **30%**.
- Revamped global component procurement dashboard, **optimizing data loading times** for improved insights. This significantly enhanced dealer user experience, resulting in a **25%** decrease in loading times and increased user satisfaction.

Accenture - Data Analyst (Analytics and Business Intelligence Team) **Nov 2020 - May 2022**

- Designed and deployed an **AWS**-based CI/CD pipeline, facilitating the automation of **Python** scripts using **Lambda** for exhaustive post-deployment health checks of an insurance application. Implemented **SNS** notifications to promptly update stakeholders with critical findings. This initiative significantly optimized processes, achieving an impressive reduction in manual labor by over **40** hours.
- Devised and automated dashboards to identify operation pipeline failures, increasing customer satisfaction by **15%** through constant tracking and effective communication with field managers.

Accenture - Associate Software Engineer **Oct 2018 - Nov 2020**

- Developed strategic Tableau dashboards for the Health and Accidental Insurance sector, revealing growth potential that contributed to a 9.82% sales increase from 2019 to 2020.
- Leveraged **Airflow** to design and implement robust **ETL** pipelines, enhancing data reliability and accessibility. This automation led to a **40%** reduction in data processing time and significantly improved the efficiency of analytics tasks.

Projects

Hotel Booking Cancellation Prediction

- Developed a **Streamlit** Dashboard with data-driven prediction model at the back end for hotel reservation cancellations with **Python**, **Pandas**, and **Scikit-learn** using **Random Forest** and **XGBoost**, achieving a **97.1%** model accuracy.
- Improved the accuracy over the previous model using the **chi-square** test to only select relevant features.

Text to Image Synthesis Using Generative Adversarial Networks

- Worked on the Featuring Engineering part of the text to understand the pattern in the current text dataset and generating a model based on these findings to interpret the users text input. The model used **Numpy**, **Scipy**, **Tensorflow**, **Pandas**, **Pillow** and **PyTorch** libraries.
- Published a Paper under the guidance of Prof. Prachi Patil and my teammates on 'Comparison of Text to Image Synthesis Algorithms' in IJRASET Volume 6, Issue IV.
  Link: https://www.ijraset.com/fileserve.php?FID=16614

Analyzing the Foreign Tourism Trends in India from 2014-2020

- Built a comprehensive **Tableau** dashboard that highlighted demographic and geographic growth potential, successfully identifying states with superior performance in attracting foreign visitors.
  Link: https://public.tableau.com/views/VisitorstoIndiabasedonCountryandGender2014-2020/VisitorAnalysisbyGender?:language=en-GB&:display_count=n&:origin=viz_share_link