Ameya Dattaram Parab

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EDUCATION

Indiana University, Bloomington, IN, United States   **August 2022 – May 2024**
Master of Science in Data Science   CGPA: 3.95/4.0

University of Mumbai, Mumbai, India   **July 2014 – May 2018**
Bachelor of Engineering in Information Technology   CGPA: 8.58/10

TECHNICAL SKILLS

Languages: Python, R, Java, PL/SQL, SOQL, HTML5, CSS3
Databases: MS SQL Server, SSIS, MySQL, SQLite, PostgreSQL, Oracle DB, Snowflake, MongoDB, Neo4J, Big Query, Salesforce Workbench
Tools: Anypoint Studio, R Studio, Tableau, Power BI, Gephi, Google Looker Studio, SOAP UI, Microsoft Office
Cloud: MuleSoft Anypoint Platform, Salesforce Lightning Platform, Google Cloud Platform, AWS
CICD & Project Management: Jenkins, GIT, Docker, Kubernetes, JIRA, CA Agile Central, Confluence, Draw.io
Certifications & Badges: MuleSoft Certified Developer (Level 1), Snowflake Hands on Essentials, Accenture's Agile Professional

WORK EXPERIENCE

Indiana University School of Medicine, Indianapolis, IN   **July 2023 – Present**
Research Assistant
- Engineered a robust database system in Big Query by performing preprocessing and transformation on extensive raw data of over **46,000 patients**, facilitating seamless querying to uncover patterns and trends enabling prediction of over **5 types of patient outcomes**.
- Designed a comprehensive data model for various data types and formats, including Parquet, facilitating efficient collaboration among Developers, Researchers and Data Scientists to **increase productivity by 20%.**
- Incorporated **6 visual representations** to effectively present the extracted meaningful features and **facilitate the analysis** of 65,000 ICU stays.

Apisero, Mumbai, India   **December 2021 – August 2022**
Senior Software Engineer
- Developed comprehensive **API documentations**, architecture & sequence diagrams for **3 features**, facilitating seamless implementation by the developers and testers as well as **enabling effective communication** between the relevant stakeholders.
- Spearheaded collaboration & coordination with **3 US based clients** and cross-functional teams as a **Technical Consultant**, ensuring effective and clear communication to deliver the product as per the business requirements resulting in **increased client satisfaction** and **retention**.
- Demonstrated expertise in creating highly **efficient integration** interfaces for **REST APIs**, **ETL** and **Data Pipelines** across diverse systems, leveraging IBM MQ, Kafka, AWS SQS, Database, MongoDB, Snowflake, Tableau and Salesforce connectors ensuring unified view of data.

Accenture, Mumbai, India   **October 2018 - December 2021**
Application Development Analyst
- Played a key role as an **Integration and API Developer** in a large-scale **SAFe Agile** Project, collaborating with **14 Scrum teams** and **120 members** achieving **100%** completion of the **project goals**.
- Demonstrated exceptional **problem-solving** & **analytical skills** by resolving approximately **200 SIT defects**, ensuring **timely delivery** of the release.
- Earned noteworthy recognitions of **Growing Star** & **Day One Star**, for showcasing dedication to **professional growth** & **outstanding contributions**.
- Mentored **15 new hires** by facilitating their project onboarding process, contributing to their **professional development** and **project success**.

ACADEMIC PROJECTS

BookMyDoc (A Medical Appointment Booking Platform)   **March 2023 – April 2023**
- Developed a robust application using **R Shiny** to facilitate seamless **CRUD** operations leveraging **6 Joins**, **3 Views**, & **over 14 complex SQL queries** on a Healthcare database ensuring adherence to **third normal form**. (Demonstration Video)
- Devised an efficient **Data Pipeline** using **PySpark** capable of batch processing over **100,000 records** facilitating efficient operations on the data.
- Designed an intuitive dashboard that showcased **7 comprehensive statistics and visualizations**, providing **valuable insights to users**.
- Deployed the Shiny app on shinyapps.io while hosting the database on a **GCP MySQL** instance, resulting in a significant **70% reduction in query execution time**, thereby **improving overall performance** and **responsiveness**.

Employee Attrition Rate Analysis and Prediction   **October 2022 – December 2022**
- Leveraged a comprehensive blend of **descriptive**, **predictive**, and **prescriptive** data analytics techniques to gain in-depth insights into the **15 diverse factors** contributing to employee attrition within an organization **empowering better judgements**. (Documentation)
- Employed **Gestalt Principles of Design** to combine 2 static, 3 interactive, and 2 animated visualizations, allowing immersive **exploration of temporal patterns and trends** for **informed data-driven decisions**. (Demonstration Video)
- Implemented a **classification model** to accurately predict whether an employee would stay or leave the organization. By leveraging relevant features and conducting thorough analysis, the model provided valuable insights for **proactive employee retention strategies**.

LEADERSHIP & INVOLVEMENT
- Authored a Medium Article that garnered **28 views**, offering critique on a unique visualization, its insights and skillful use of visual encodings.
- Recognized as a **MuleSoft Mentor** for zealously engaging & addressing over **40 technical queries** in the MuleSoft Forum.
- Actively interacted with **32 employers** and managed their hiring events as a **Placement Coordinator** leading to **98% of students** getting offers.