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, Cypher Query Language, Cassandra Query Language, HTML5, CSS3
Databases: MS SQL Server, SSIS, MySQL, SQLite, PostgreSQL, Oracle DB, Databricks, MongoDB, Neo4J, Big Query, Snowflake
Tools: Anypoint Studio, R Studio, Tableau, Power BI, Gephi, Google Looker Studio, SOAP UI, Microsoft Office
CICD & Project Management: Jenkins, GIT, Docker, Kubernetes, JIRA, CA Agile Central, Confluence, Draw.io
Certifications & Badges: Salesforce Certified MuleSoft 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** and **PostgreSQL** by performing **data preprocessing** on extensive raw datasets of MIMIC III, IV & EICU consisting of over **1 million records**, enabling **seamless querying** to uncover patterns and **prediction** of over **5 types of patient outcomes**.
- Constructed a comprehensive **data model** for various data types and performed the responsibilities of a **DBA** for **access and privilege management** fostering **efficient collaboration** among Researchers & Data Scientists to **increase productivity by 30%.**
- Devised an automated **data pipeline** to streamline **time series** data retrieval by integrating with **PySpark**, **Big Query** & **Google Cloud Storage** involving **up-sampling** and **interpolation** techniques to smoothen data and **reduce the missing values by 30%.**
- Incorporated **16 visual representations** to effectively represent the **meaningful clinical features** and **patient demographics** facilitating **data analysis**.

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 by adhering to best practices in **functional design** in turn leading to better understanding of the **technical requirements**.
- Spearheaded collaboration & coordination with **3 US based clients** and cross-functional teams as a **Technical Consultant**, encouraging **effective communication** to deliver the product as per the **business objectives** & requirements resulting in **increased client satisfaction** and **retention**.
- Demonstrated expertise in creating highly efficient integration interfaces for **REST APIs**, **ETL** processes, and **Data Pipelines** across diverse systems, **cloud environments**, and **storage** (**GCP** & **AWS**) platforms, safeguarding **streamlined data flow and integrity**.
- Implemented **data modeling** techniques to design and build a **canonical data model** for various structured & unstructured data sources such as XML, JSON, and CSV, ensuring a **unified view of data** for enhanced **analytics and reporting**.

Accenture, Mumbai, India   **October 2018 - December 2021**
Application Development Analyst

- Played a key role as a **Data Integration Developer** in a large-scale **SAFe Agile** Project to build **data-driven** integrations, collaborating with **14 Scrum teams** achieving **100% completion of project goals** and **user stories** by adhering to **SDLC principles**, and **test-driven development.**
- Exhibited exceptional **problem-solving** & **analytical skills** by troubleshooting and resolving approximately **200 SIT defects**, ensuring **timely delivery** of the release **increasing business performance by 20%.**
- Earned 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)

- 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 **10,000 records, reducing the data processing time** by **60%**.
- 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**.

Profile Pedia (Job Profile Database)

- Crafted a data pipeline in **Snowflake** using **Snowpipe**, **Stored Procedures** and **Streams** for efficient **data retrieval**, automate database operations and **change data capture** of the stored data of job postings from various companies.
- Integrated **AWS S3** bucket with **Snowflake** by creating an **external stage** and **file format** for JSON and CSV files to seamlessly load data.

LEADERSHIP & INVOLVEMENT

- Authored **2 Medium Articles** that garnered **over 100 views**, providing overview of system design for music recommendation app.
- Assisted the Professor in development of **course modules** & **instructional aids** for RDBMS, Database Design, MongoDB, Neo4j, Snowflake, and Cassandra as an **Associate instructor** for **Applied Database Technologies** course to enhance the teaching proces.
- Recognized as a **Top Voice for API Development** on LinkedIn, showcasing expertise and thought leadership in the domain.