MOHIT PATIL

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EDUCATION

Arizona State University, Tempe, AZ   **Aug 2021 - May 2023 (Exp)**
Master of Science (MS) in Computer Science   **GPA: 3.67/4.00**
Coursework: Mobile Computing , Multimedia Information Systems, Foundations of Algorithms
Distributed Database Systems, Knowledge Representation

Maharashtra Institute of Technology (MIT), India   **July 2015 - June 2019**
Bachelor of Engineering (BE) in Computer Engineering   .   **CGPA: 8.86/10.00**

SKILLS

- **Programming Languages:** Python (scikit-learn, matplotlib, pandas, numpy, angr), SQL, NoSQL, Java, C++, HTML, CSS
- **Datastore:** AWS Redshift, Oracle, PostgreSQL, MS SQL server, MySQL, Apache Cassandra (SOLR Interface)
- **ETL & Visualization Tools:** Talend Open Studio, Informatica Powercenter, Tableau, Qlikview
- **DevOps Tools:** Github, Putty, Flask, Spark, AWS EMR, AWS S3, Jira, Confluence, Azure, R studio, Docker, LATEX.
- **Operating Systems:** MacOS, Linux, Windows, Android.

PROFESSIONAL EXPERIENCE

Arizona State University   **Oct 2021 - Present**
Graduate Services Assistant
- Working at the **Center of Cyber Security and Digital Forensics** on **Angr (python library for analyzing binaries)**.
- Restructured **250+ test cases** to reduce the runtime by **60%** thus improving efficiency, compatibility & readability.
- **Tools:** Python, Git, Docker, Nose2, WSL.

Accenture   **Sept 2019 - July 2021**
Software Engineer – Data Governance Team
- Designed **Extract Transform Load (ETL) jobs, warehouse schema** and **data models** consisting of databases like **Oracle, AWS Redshift, Apache Cassandra, PostgreSQL** including end-to-end implementation , unit & integration testing.
- Worked on **data transformation** in data warehouse and **data marts** using ETL tools for more than **5 million users**.
- Built recommendation engine using **Machine Learning** with customer centric experience increasing the sales by **5%**.
- Maintained the **AWS S3** and **global data lake** buckets to store customer data for different regions globally.
- Scrutinized the data in **ETL data pipelines** via **SQL/NoSQL** for defect tracking, rendering data insights & data analytics.

TECHNICAL PROJECTS

Continuous Glucose Monitor(CGM) Prediction System   **Aug 2021 - Dec 2021**
- Leveraged **time-series machine learning predictive modeling** called **Seasonal Autoregressive Integrated Moving Average (SARIMA)** for the prediction of meals to facilitate insulin dosage for the diabetic (Type-1 & Type-2) patients.
- Achieved prediction accuracy of **98%** using python libraries like **Matplotlib, Numpy, Pandas, Scipy, Sarimax**.

Gesture Recognition and Control Application   **Sept 2021- Nov 2021**
- Implemented gesture prediction by leveraging **Convolutional Neural Networks (CNN)** in **Tensorflow**, **Image processing**, and developed an **android application** allowing users to control home appliances using gestures.

Data Privacy Project (Accenture)   **Sept 2020 - Dec 2020**
- Integral part of team responsible for execution of **California Consumer Privacy Act (CCPA)** for North America market and **General Data Protection Regulation (GDPR)** for European market for **McDonald's Corporation** at Accenture.
- Leveraged **Talend Open Studio** for the implementation of Data Privacy Act thus reducing data theft by **30%**.

Smart Parking System   **Jan 2019 - May2019**
- Developed a real-time end-to-end IoT system using **Raspberry Pi, infrared sensors, MySQL & Python** to collect sensor data and designed the predictive algorithms to compute the future occupancy of parking slots and their rates.

CERTIFICATIONS

- Certified as **Oracle Database SQL Certified Associate** and **Microsoft Azure Fundamentals (AZ-900)**.   **2021**
- **International Software Testing Qualifications Board (ISTQB)** Foundation level certification at Accenture**.**   **2020**
- Certified by **Coursera in Python & Big Data** on courses offered by **University of Michigan**.   **2020**

PUBLICATIONS

Smart Detection of Parking Rated and Their Dependency   **2019**
https://link.springer.com/chapter/10.1007/978-981-15-0790-8_37
- An Approach using **IoT** & **Machine Learning** to dynamically predict the parking occupancy and rates depending on various external factors published in the **International Conference on Computational Science and Applications (ICCSA-2019).**

ACHIEVEMENTS

- Winner of **Pinnacle Award** at Accenture.   **2021**