

Mihir Dhirajlal Satra

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EDUCATION

San Jose State University | San Jose, CA

Aug 2023 – May 2025

Master of Science in Computer Science

GPA – 3.83/4.0

Coursework: Distributed Computing, Database Systems, Big Data, Cloud Computing, NoSQL Databases, Artificial Intelligence

University of Mumbai | Mumbai, India

Aug 2017 - May 2021

Bachelor of Science in Computer Engineering

Coursework: Data Structures, Algorithms, DBMS, Operating Systems, Software Engineering, Web Technology, Cloud Computing

SKILLS

Programming – Python, Golang, Java, SQL, JavaScript, C, TypeScript, C++, Rust, Scala, C#, HTML, CSS, DAX

Frontend/Backend Development – NodeJS, AngularJS, ExpressJS, ReactJS, Vue.js, Django, Flask, DevOps, Springboot, CI/CD, Git

Industry Knowledge – Data Warehousing, ETL, Data Modelling, Big Data, Software Development, Full Stack, Machine Learning, NLP

Cloud Technologies – Azure (Data Lake, Synapse, Databricks, Analysis Services), AWS (S3, Redshift, DynamoDB, EC2, Lambda)

Data Technologies – Hadoop, Spark, Power BI, Kafka, Docker, Kubernetes, Snowflake, Airflow, BigQuery, Grafana, Tableau, NoSQL

Databases – MySQL, PostgreSQL, MongoDB, Cassandra, Redis, Elasticsearch, HBase, Hive, Spanner, BigTable

WORK EXPERIENCE

Nutanix | San Jose, CA

May 2024 – Present

Software Engineer Intern | *Golang, JavaScript, Python, Elasticsearch, Kubernetes, Docker, Git*

- Developed **Distributed Tracing using open source Jaeger** and **OpenTelemetry** on on-premises **Kubernetes** platform, achieving **40%** increase in system visibility & operational efficiency.
- Conducted comprehensive analysis of service dependencies within microservices architecture, visualizing data flow & reducing system complexity. Enhanced querying and indexing with **Elasticsearch**, optimizing data processes by **40%**.
- Initiated efforts to pinpoint **error sources** and mitigate **latency issues** through traces, improving system performance by **30%**.

LTIMindtree | Mumbai, India

Jul 2021 – Jul 2023

Senior Data Engineer | *Python, SQL, Data Warehouse, Power BI, Microsoft Azure – Synapse, Databricks, Analysis Services*

- Spearheaded **Azure Synapse** data warehouse development for a life science customer, cutting storage costs by **20%** & boosting data processing efficiency by **40%**, & streamlining data pipelines with **Azure Data Factory**.
- Secured **\$36 million in revenue** through 3 production releases via **Azure DevOps**, addressing client enhancements & hotfixes for Manufacturing Analytics on tight deadlines.
- Created Python notebooks on **Azure Databricks (Spark)** for automated data transformation, reducing manual data cleaning and analysis time by **25%**.
- Engineered **Azure Analysis Services** tabular models with business logic, decreasing BI report load times by **85%**.
- Constructed **50 Power BI reports**, increasing departmental efficiency by **15%** & informed decision-making across organization.

GRT Global Logistics Pvt. Ltd. | Mumbai, India

Dec 2019 – Jan 2020

Software Engineer Intern | *Python, Selenium, Software Engineering*

- Streamlined organization's ERP software testing process with Selenium automation, reducing testing time by **80%**.
- Automated testing identifying system failures, leading to **30% increase** in bug resolutions & **15% less downtime**.
- Collaborated with the technical team to enhance system design, boosting **operational efficiency by 25%**.

PROJECTS

Personality Prediction System to Improve Employee Recruitment | *Python, SQL, Scikit-Learn, Keyword Extraction, NLTK*

Publication: [‘Computational Intelligence for Modern Business Systems’ under ‘Emerging Applications and Strategies’ by Springer Nature and indexed by Scopus Database](#)

- Led team of 4 to create a **predictive system** using questionnaires to offer valuable insights into candidate personalities for employers.
- Trained and executed machine learning models, including **Google BERT** for keyword extraction & **logistic regression**, and applied fuzzy logic based on Big Five Personality Model for candidate personality spectrum.

Ride Insights: Analyzing NYC Taxi Trip Data | *GCP – (Cloud Storage, BigQuery, Compute Engine), Mage, SQL, Looker Studio*

- Engineering the project on GCP, reducing processing time by **30%** and enhancing insights from NYC taxi trip records for strategic decision-making.
- Implemented **ETL pipeline with Mage**, achieving streamlined data processing and storage on **GCS** and **BigQuery**. Integrated **Looker Studio** to create dynamic dashboards, increasing data accessibility and user engagement.