SHUBHAM SANJAY DAREKAR

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EDUCATION

University of Southern California   Los Angeles, California
Master of Computer Science   *Expected May 2025*

University of Mumbai   Mumbai, India
Bachelor of Engineering in Information Technology   *Aug 2017 – Jul 2021*

PROFESSIONAL EXPERIENCE

MAQ Software - Microsoft Power BI Partner   Redmond, Washington
Software Data Operations Engineer   *May 2024 - Aug 2024*
- Led collaboration with Microsoft Leadership and Core Data Engineering Team, implementing enhancements to Azure systems containing Azure Synapse Analytics and Data Factory, ensuring a smooth fiscal year rollover.
- Analyzed and integrated new data points to improve existing reports, increasing interaction by 25% for end-users.
- Designed and executed EDA processes on datasets with >1M records to identify critical patterns for data scaling.
- Authored CI/CD pipelines harnessing Azure DevOps for builds and deployments, achieving 100% automation.

Data Engineer   *Jul 2021 - Jun 2023*
- Devised T-SQL procedures, triggers, and indexes for pipelines, processing data up to 0.1TB per day.
- Modeled large datasets for Fortune-500 in Azure Analysis Services and SQL Data Warehouse to deliver insights.
- Generated 10+ dynamic reports and dashboards in Power BI for sales leadership in Microsoft, improving business.
- Enhanced forecasting accuracy and data handling by leveraging Azure Databricks for daily streaming data.
- Directed discussions of cross-functional team of 12, managed on-site POCs and client calls to elicit requirements.
- Awarded **SPOT recognition** for training LSTM and Prophet models that predicted drops in client's business.

Indian Society for Technical Education (ISTE, Technical Society)   Mumbai, India
Senior Technical Officer   *Jun 2019 – May 2021*
- Designed a data collection and analysis solution using Python to gather insights for 8+ events with 300+ attendees.
- Planned and supervised operational functions of ISTE, focusing on strategy development.

Quinnox Inc.   Mumbai, India
Data Engineering Intern   *Dec 2019 – Jan 2020*
- Worked with R&D team to re-engineer solutions using AI to save 100s of man-hours, impacting 400+ employees.
- Built a tool to collect happy points and find employee satisfaction index using correlation algorithm.

TECHNICAL PROJECTS

NewsNest: Web Data Extraction and Management   *Jan 2024 – Apr 2024*
- Deployed a real-time news scraping and analysis pipeline, using GCP-Cloud functions and FastAPIs.
- Engineered the pipeline with Airflow, vector databases, OpenAI, and data warehouses for efficient data flow.

TheraPY: Personalized Mental Health Therapy Platform   *Jan 2024 – May 2024*
- Designed an AI-powered platform using NLP to deliver therapy sessions based on real-time user analysis.
- Integrated Azure for data processing and optimized recommendation algorithms, improving response time by 30%.

MAPd: A VR Photography Embedded map with Grid based Indoor Positioning   *Aug 2024 – May 2021*
- Fashioned a positioning system based on position estimation algorithm with RSSI values of available WIFIs.
- With the ML algorithm, detected position with an average error of 0.41 meters, ideal for indoor positioning.

TECHNICAL SKILLS

Programming and Data Manipulation: Python, C, Java, R, T-SQL, Spark SQL, PySpark, MongoDB
Data Engineering & Analytics: Power BI, Tableau, dbt, Seaborn, Matplotlib, Microsoft Fabric, Snowflake, PineCone
Framework and Libraries: Scikit-Learn, Keras, TensorFlow, OpenCV, NumPy, Pandas, PyTorch, NLP, Dataiku
Cloud Services: Azure DataBricks, Azure Data Factory, AWS, GCP BigQuery, Power Automate, ADX
Solution Development: Data Structures and Algorithms, Internet of things, Computer Vision, Flask, FastAPI, Airflow
Certification: Microsoft Certified: Fabric Analytics Engineer Associate, Azure AI and Data Fundamentals

PAPER PUBLICATIONS

- "VR Photography Embedded Map with Grid based Indoor Positioning," 2021 2nd INCET IEEE | Link
- "Real Time Crowd Surveillance using Machine Learning," 2021 2nd GCAT IEEE Conference, Oct 2019 | Link