

Varun Prakash Patil

Software Engineer II



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EXPERIENCE

UPLIGHT | SOFTWARE ENGINEER II

March 2024 – Current | Mumbai

- Working on re-engineering and migration of 8+ applications and data pipelines to a new data platform, resulting in up to a 110% cost reduction
- Streamlined the tenant onboarding process, reducing manual effort and cutting launch times by 90%
- Developed a Generative AI chatbot for the Operations Team, enabling efficient warehouse querying via natural language, significantly reducing query writing time
- Upgraded critical libraries, achieving 100% compliance with the latest security standards and enhancing overall system performance
- Refined existing Airflow DAGs, achieving up to a 97% reduction in execution times, significantly improving efficiency

UST (UPLIGHT) | SOFTWARE DEVELOPER II

February 2023 – February 2024 | Mumbai

- Worked primarily on Home Energy Reporting Service, identifying and resolving 30+ bugs that improved overall service reliability
- Completed the data migration for AES IN, by creating custom scripts and validation, ensuring 100% data consistency

LARSEN AND TOUBRO INFOTECH (LTIMINDTREE) | DATA ENGINEER

January 2021 – February 2023 | Mumbai

- Led 9+ data warehouse modernization projects, optimizing execution times by up to 7x through object-oriented development, bug fixing, and performance tuning
- Migrated Oracle/Teradata to BigQuery & Databricks, achieving a transfer rate of 1.3M+ records in <40 seconds via Spark-based processing on GCP DataProc
- Developed Data Mesh, automated CI/CD using Cloud Run and Kubernetes Engine, and showcased capabilities at the DATA+AI Summit, garnering 100+ attendees

CERTIFICATIONS

Databricks Certified Data Engineer Associate	November 2022
Google Cloud Certified Professional Data Engineer	November 2021
IBM AI Engineering Professional Certificate	January 2020
Oracle Certified Associate, Java SE 8 Programmer	January 2019

PERSONAL PROJECTS

SUPPLIER QUALITY ANALYSIS | ADF, ADLS, POWER BI, SQL SERVER, AZURE SQL

March 2021-April 2021

- Created ETL data pipeline on Azure Data Factory for migration of on-premises SQL Server data to Azure SQL, performed data analytics, and generated a dashboard using Power BI.

VIDEO SUPER RESOLUTION USING DEEP LEARNING | PYTHON, TENSORFLOW, KERAS

July 2019-April 2020

- Developed a Machine Learning application that utilizes CNN and GAN to super-resolve blurred videos to higher quality while minimizing texture loss.
- Achieved a PSNR of 33.6 with a median per pixel deviation of 17%.

SKILLS

TOOLS & TECHNOLOGIES / CLOUD SERVICES

Google Cloud Platform (GCP), AWS, Microsoft Azure, Airflow, Databricks, Kafka, Git, Docker, Kubernetes, Power BI, SSIS

PROGRAMMING / DATABASES

Python, Java, JavaScript, MySQL, BigQuery, SQL Server, SparkSQL, Teradata, OracleSQL, Hadoop / Hive, NoSQL, MongoDB

LIBRARIES/Frameworks

ReactJS, Flask, Apache Spark (PySpark), Pandas, TensorFlow, Keras, Numpy

EDUCATION

ST FRANCIS INSTITUTE OF TECHNOLOGY

B.E. COMPUTER ENGINEERING
August 2016 - October 2020 | Mumbai

PUBLICATIONS

Coloring Greyscale Images using Deep Learning

International Research Journal of Engineering and Technology (IRJET)
VOLUME: 06 ISSUE: 07 | JULY 2019

OTHER TRAININGS

- Apache Spark 3.0 Developer Training by Databricks, May 2022
- Snowflake SnowPark Workshop in LTI, April 2022
- Training in Oracle SQL, PL/SQL, Unix, Data Warehousing, SSIS, SSRS, SSAS, Azure Cloud, ADF, Power BI in LTI, March 2021