

Vishw Vekariya

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EDUCATION

University of California, Los Angeles (UCLA)

(Incoming) Master of Science in Business Analytics

Los Angeles, CA

Sep. 2025

Sardar Vallabhbhai National Institute of Technology (SVNIT)

Bachelor of Technology in Computer Science and Engineering

Surat, India

Dec. 2021 – Jun. 2025

EXPERIENCE

Software Developer - Data Engineer

MAQ Software

Jan. 2025 – Jun. 2025

Noida, India

- Engineered 15 distinct Airflow DAGs to automate data transformation workflows, resulting in a 99% success rate in execution and zero manual intervention required, highlighting the reliability of the new workflows.
- Integrated Azure Pipelines and Logic Apps to trigger email alerts for critical reporting workflows, immediately notifying stakeholders of data updates and anomalies, improving report accuracy by 15%.

Software Engineer Intern

Reliance Industries Ltd.

May 2024 – Jul. 2024

Mumbai, India

- Pioneered the adoption of Angular CLI and Spring Boot for the Visitor Management System, resulting in a 20% increase in team efficiency due to improved code maintainability.
- Developed an OpenCV-based module that automated visitor card data capture, achieving 98% accuracy in extracting names, affiliations, and visit duration, and slashed manual entry errors.

Machine Learning Intern

Techs Network

May 2023 – Aug. 2023

Bengaluru, India

- Developed a resume screening model using TensorFlow and XGBoost, achieving 95% accuracy in identifying qualified candidates based on keyword relevance and experience level.
- Accelerated an LSTM model using TensorFlow, achieving a 12% improvement in stock prediction accuracy compared to the baseline model, providing more insights for the investment team.

PROJECTS

Heart Rate Calculation using Remote Photoplethysmography | *Python, Pytorch, QtGui, QtCore, cv2, SciPy, Git*

- Engineered a computer vision and signal analysis pipeline to measure heart rate from facial video ROI extraction, and statistical color signal averaging across time series frames.
- Developed remote photoplethysmography (rPPG) system leveraging statistical color signal averaging across time-series frames, achieving a MAE of 5 BPM against industry-standard ECG measurements.

Sales Vision | *Python, Flask, MongoDB, Express, React, Node, Git*

- Delivered an AI-powered sales prediction dashboard using time-series analysis, providing daily, weekly, and monthly trend breakdowns with 95% accuracy, thereby improving resource allocation.
- Built REST APIs using Flask and integrated with MERN stack for real-time insights.

Resume Screener | *Python, Flask, React, Git*

- Built an AI tool to recommend job roles from candidate resumes.
- Programmed a Natural Language Processing (NLP) pipeline leveraging BERT to extract skills, experience, and qualifications from 50,000+ parsed resumes; reduced manual HR review time by 40%.

RESEARCH PAPERS

Capturing SARS-CoV-2 Mutations with NLP | *Python, Transformers, SciSpacy*

- Applied Transformer-based NLP models to genomic sequences of the SARS-CoV-2 Spike protein to predict mutation likelihoods; achieved 6.5% evaluation loss in masked language modeling

TECHNICAL SKILLS

Languages: Java, Python, C/C++, SQL, R, JavaScript, HTML/CSS

Frameworks: Airflow, Hadoop, Kafka, Hive, Angular, React, .NET, Node.js, Flask, MongoDB

Developer Tools: Git, Azure, Microsoft Fabric, Linux, Google Cloud Platform, VS Code, PyCharm, IntelliJ

Libraries: Pyspark, NumPy, TensorFlow, Matplotlib, OpenCV, NLTK, XGBoost, Scikit-learn, Pandas