

Lokesh Kank

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WORK EXPERIENCE

Gravity AI, AI/ML Intern

Mar 2023 to Aug 2023

Python, API, NLP, LLM, Docker, ETL, SQL, Airflow, Generative AI, AWS, Kubernetes, Hugging Face, Transformers

- Fine-tuned and deployed large language models (LLMs) with integrated APIs and prompt engineering, driving **20%** higher user engagement, increased customer acquisition, and lowered costs for e-commerce and small businesses.
- Established Airflow DAGs for efficient workflows and set up SQL server connection with Airflow for loading and extracting data, saving **30** hrs. per week of human efforts.
- Containerized AI models with docker on AWS EC2 and maintained Python libraries to facilitate seamless model deployment.

SDSU, Deep Learning Research Intern

Jan 2023 to May 2023

OpenCV, Keras, ffmpeg, Anomaly detection, TensorFlow, Autoencoder, Deep Learning

- Engineered preprocessing pipeline for medical video data, improving data quality by **30%** and reducing noise interference.
- Used **OpenCV2** for metadata and image extraction, and researched on designing a future approach. Trained a CNN model for anomaly detection, resulting in **85%** accuracy and enabling timely intervention for patients.

Data Glacier, Data Scientist Intern

Jan 2023 to Mar 2023

Pandas, Git, GitHub, Flask, Regression, Feature Engineering, Scrum and Kanban, SkLearn, Statistical analysis, LightGBM

- Developed a Marketing mix model to forecast whether customers will subscribe to the Portuguese bank's term deposit.
- Applied Machine learning algorithms of which random forest with the best accuracy of **0.96** and ROC AUC of **0.996**
- Boosted stakeholder trust by **50%**, communicating project progress, resulting in reduced meeting frequency.

Accenture, Software Engineer

Nov 2019 to Jul 2022

Python, ETL, Linux, Jira, query optimization, SSIS, Cross Functions, Data warehouse, S3, Tableau, Confluence ([Honors and Awards](#))

- Exploited SQL, maintained ETL, and used Python for quantitative analysis and dashboard creations. Solved incident tickets within SLA with security measures. This resulted in a **26%** increase in customer satisfaction as calculated by NPS (Net Promoter Score).
- Delivered business insights within SLA by cross functions collaboration, streamlining SQL queries and indexing resulting **35%** increase in data retrieval speed. Conducted A/B tests to evaluate and monitor delivered insights performance.
- Led a team to migrate web app to RHEL 8 and data to AWS cloud (RHEL 8), fortified application interfaces, and used SSIS tool for data migration in the PROD environments, improving server performance by **32%** and eliminating threat vulnerabilities.

EDUCATION

San Diego State University (SDSU)

Aug 2022 to May 2024

Master of Science in Big Data Analytics

San Diego, CA, USA

Relevant Courses: Big Data Analytics and tools, Machine learning Engineering, Enterprise Data Base Management.

Savitribai Phule Pune University

Aug 2016 to May 2019

Bachelor of Mechanical Engineering: 3.7/4

Pune, MH, India

Certifications: AWS Solution Architect, LLM Prompt Engineering for Developers, Data Science with Python.

PROJECT

Prediction of Energy Star Scores of New Buildings.

Skills: Statistics, Probability, Exploratory Data Analysis, Visualization, feature Engineering, Data modeling, Scikit learn algorithms

- Achieved MAE of **9.044** by Comparing several regression models and elected Gradient Boosting model. Implemented data processing, EDA, and feature engineering, one hot encoding and removing collinear features > **0.6** coefficients for best results.

Hackathon: Classification of Drugs for Prevention of Medication Errors

Tableau, CNN, Trend Analysis, TensorFlow, Keras, Pytorch, Image Processing, Google Sites, Model Evaluating

- Reduced noise in data by **24%** after implementing Image Pre-processing techniques in detail to raise the image data quality.
- Created Various Deep Learning models (Neural Networks) with **95 to 99%** accuracy to classify drugs efficiently.

NLP text summarization using MLOps with deployment using GitHub actions.

Skills: Hugging Face, Transformer, Text preprocessing, Fast API, AWS, Docker, CI/CD, Github, Git

- Achieved text summarization using Transformer-based models by integrating NLP techniques and leveraging pre-trained models.
- Ensured superior model performance through a streamlined training pipeline, precise data handling, and strategic evaluation.
- Enabled seamless AWS deployment with Docker and configured CI/CD workflows for efficient updates.

SKILLS

Programming: Python, R, SQL, JavaScript, Bash

ML: PyTorch, ML ops, TensorFlow, Keras, Apache Spark, Scikit-learn

Data Engineering: Kafka, Airflow, ETL, Hadoop, Hive, MapReduce

Database: MySQL, PostgreSQL, SQL Server, MongoDB (NoSQL)

Service: AWS (S3, EC2, DynamoDB, Redshift), Docker.

Statistics: Hypothesis Testing, A/B Tests, Linear models

Deep Learning: CNN, RNN, VGG-16, Bayesian

Other Tech: Excel, Git, GitHub, Jira, Tableau, VS code.