

Lokesh Kank

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WORK EXPERIENCE

Gravity AI, Data Science and Engineering Intern

Mar 2023 to Present

Skills: Python, API, LLM, Apache Airflow, Generative AI, AWS, SQL server

San Diego, CA, USA

- Developing and deploying customize chat GPT models using openAI API and prompt engineering, data manipulation with a focus on **20%** increase in user engagement.
- Creating local DAGs for efficient workflows. Setting up SQL server connection with Airflow for loading and exacting data which saved **30** hrs. per week of human efforts.
- Optimizing and maintaining Python libraries for hundreds of pre-trained AI models and implementing prompt engineering for client specific AI models.

SDSU, Graduate Research Assistant

Jan 2023 to May 2023

Skills: OpenCV, Keras, ffmpeg, TensorFlow, Autoencoder, Deep Learning

San Diego, CA, USA

- Prepared image data from videos, preprocessed it, and trained CNN model for anomaly detection of RBC flow velocity.
- Utilized OpenCV2 for metadata and image extraction, collaborating on designing a future approach.

Data Glacier, Data Science Intern

Jan 2023 to Mar 2023

Skills: Pandas, Git, Github, Data Cleaning, Scrum and Kanban, Machine Learning

San Diego, CA, USA

- Concluded LGBM as the best model with **0.64** F1 score, to predict customers buying Bank's term deposit scheme.
- Implemented a feature engineering technique called one-hot encoding, resulting in a **10%** improvement in the accuracy of the customer churn prediction model.
- Boosted stakeholder trust by **50%**, communicating project progress, resulting in reduced meeting frequency.

Accenture, Software Engineer

Oct 2019 to Jul 2022

Skills: SC3, ETL, Linux, Redshift, SQL, Mysql, Cross Functions, S3, Tableau, confluence, ([Honors and Awards](#))

Pune, MH, India

- Defined baseline metrics for A/B testing. Obtained a **35%** increase in data retrieval speed, by streamlining SQL queries and using indexing strategies for data analysis.
- Solved high impact incidents, exploited SQL, and Python for automation, and created business reports for client presentations. This resulted in a **26%** increase in client satisfaction as calculated by NPS (Net Promoter Score).
- Saved **60** hrs of monthly work by developing automation resulting in smooth processing of cross-functionals. Established application interfaces, and deployed hotfixes, and releases in the PROD environment.

PROJECTS

Hackathon: Classification of Drugs for Prevention of Medication Errors ([website](#))

Skills: Tableau, CNN, TensorFlow, Keras, PyTorch, Image Processing, Google sites, Model Evaluating

- Reduced medication errors by **56%** after implementing Image Pre processing in detail to raise the image's quality.
- Developed Various Deep Learning models (Neural Networks) with **95 to 99%** accuracy to classify drugs efficiently.

Prediction of Energy Star Scores of New Buildings.

Skills: Statistics, Exploratory Data Analysis, feature Engineering, Model Optimization, Scikit learn algorithms

- Accomplished **12%** accuracy increase through data processing, EDA, and feature engineering, including one hot encoding and removing collinear features > **0.6** coefficients.
- Tuned hyperparameters resulting in **8%** accuracy increase. Selected Gradian Boosting model with MAE of **9.044**.

Automated Sales Forecasting and Dashboard Creation using AutoAI and Python.

Skills: Python, Excel, Quantitative Analysis, ETL, Watson Studio, AutoML, Data Preprocessing, Data mining

- Leverage autoAI to build a regression model, reducing development time by up to **80%** compared to traditional methods.
- Deployed the model on Watson ML to integrate with future applications. Automated sales forecasting for each month.
- Automated dashboard visualization using libraries like matplotlib and seaborn, reducing manual process time by **50%**.

EDUCATION

San Diego State University (SDSU)

Aug 2022 to May 2024

Master of Science in Data Science (Big Data Analytics)

San Diego, CA, USA

Relevant courses: Machine learning, GIS and its Data base management, Big Data tools and technology. Business Analytics.

Savitribai Phule Pune University

Aug 2016 to May 2019

Bachelor in Mechanical Engineering – GPA 3.8/4

Pune, MH, India

Certifications: AWS Solution Architect, ChatGPT Prompt Engineering for Developers.

SKILLS

Programming and Technology: Python, R, SQL, PostgreSQL, NoSQL, HTML, CSS

Machine Learning: Plotly, Seaborn, sklearn, numpy, pandas, GIS, matplotlib, Spark, Hive, Spark, NLTK, MapReduce, Hadoop, *NLTK*

Toolkit: AWS (S3, EC2, SageMaker), Kafka, Pycharm, Airflow, Tableau, Redshift, DynamoDB, Docker, Power BI, Git, MySQL, Excel