

Lokesh Kank

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WORK EXPERIENCE

Skyworks Solutions, Data Analyst Co-op

Jan 2024 to May 2024

SSMS, SQL server, Python, Alteryx, Knime, Power BI, Forecasting, Workflow Design, ETL, Statistics.

- Achieved optimal forecasting model results by setting up a delta monitoring solution and establishing FAV metrics, reducing MAPE error.
- Eliminated 5 hours of weekly human intervention by deploying an MS SQL database stored procedure for autorun.
- Enhancing ML model accuracy by fine-tuning features, creating Alteryx workflows, and visualizing results with Power BI for reporting.

Gravity AI, AI Engineer Intern

Mar 2023 to Aug 2023

Python, API, NLP, LLM, Docker, SQL, Airflow, Generative AI, AWS, prompt engineering, Hugging Face, Transformers

- Fine-tuned and deployed large language models (LLMs) with integrated APIs driving 20% higher user engagement, reduced CAC, and lowered costs for e-commerce and small businesses.
- Established SQL server connection with Airflow DAGs for data ETL, 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.

Department of Computer Science, Deep Learning Research Assistant

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.
- Leveraged 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, Oracle, SQL server, Linux, Jira, query optimization, Cross Functions, Data warehouse, S3, Tableau, Confluence ([Honors and Awards](#))

- Attained zero breach incident tickets within SLA with security measures by exploiting SQL and Python for quantitative analysis and dashboard creations. This resulted in a 26% increase in customer satisfaction as calculated by NPS (Net Promoter Score).
- Enhanced data science workflows by optimizing SQL queries and indexing, achieving a 35% boost in data retrieval for analytics.
- Leveraged A/B testing to assess and refine predictive models, ensuring insights delivered within SLAs met high standards of accuracy.
- 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), Master of Science in Big Data Analytics, GPA 3.5/4

Aug 2022 to May 2024

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

Savitribai Phule Pune University, Bachelor of Mechanical Engineering: GPA 3.7/4

Aug 2016 to May 2019

Certifications: Alteryx Designer Core, 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 and Service: Python, R, SQL, JavaScript, Bash, AWS (S3, EC2, DynamoDB, Redshift), Docker, Git, Github, Jira, VS Code

ML, DL, and Statistics: PyTorch, ML ops, TensorFlow, Keras, Apache Spark, Scikit-learn, Hypothesis Testing, A/B Tests, Linear models, CNN, RNN

Database and Engineering: Kafka, Airflow, ETL, Hadoop, Hive, MapReduce, MySQL, PostgreSQL, SQL Server, MongoDB (NoSQL)