Lokesh Kank

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EDUCATION

San Diego State University (SDSU)   Aug 2022 - May 2024
Master of Science in Big Data Analytics (STEM)   San Diego, CA, USA
- Big Data Science and Analytics Platforms.   *- GIS Programming with Python.*   *- Business Analytics.*
- Database Theory and Implementation.   *- Machine learning Engineering.*   *- Data Management for GIS.*

Savitribai Phule Pune University   Aug 2016 - May 2019
Bachelor in Mechanical Engineering – GPA 3.4/4   Pune, MH, India

PROFESSIONAL EXPERIENCE

Data Science Intern (On-Campus) *Skills: Pandas, Numpy, Object-Oriented Programming.*   Apr 2023 – Present
Gravity AI   San Diego, CA, USA
- Focused on helping businesses deploy their own AI models quickly and easily.
- Collaborating with a team of experts to build a library of hundreds of pre-trained AI models.

Graduate Research Assistant *Skills: OpenCV, Keras, TensorFlow, Autoencoder, Deep Learning*   Feb 2023 – Present
SDSU   San Diego, CA, USA
- Developing unsupervised anomaly detection for RBC flow and velocity using CNN models with .avi videos.
- Utilized OpenCV2 for metadata and image extraction, collaborating on designing a future approach.

Data Science Intern *Skills: Pandas, Numpy, Data Cleaning, Scrum and Kanban, Flask.*   Feb 2023 – Apr 2023
Data Glacier   San Diego, CA, USA
- Concluded LGBM as the best model with **0.64** F1 score, to predict customers buying Bank's term deposit scheme.
- Boosted stakeholder trust by **50%**, communicating project progress, resulting in reduced meeting frequency.

Software Engineer *Skills: Data Analysis, SQL, Databases, Cross Functions, RHEL Linux, AWS.*   Feb 2020 – Jul 2022
Accenture   Pune, MH, India
- Obtained a **35%** increase in data retrieval speed, by streamlining SQL queries and using indexing strategies.
- Exploited SQL, and Python for troubleshooting, and created business reports for client presentations. This resulted in a **26%** increase in client satisfaction as calculated by NPS (Net Promoter Score).
- Concluded **18%** improvement in the application performance after server migration as gauged by the Smile tool.

PROJECTS

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**.

Classification of Drugs for Prevention of Medication Errors ([website](#))
Skills: Tableau, CNN, TensorFlow, Keras, Image Processing, Google sites.
- Reduced medication errors by **56%** after implementing Image Pre-processing in detail to raise the image's quality.
- Analysed the problem of Medication errors on various drugs and developed Deep Learning models (Neural Networks) – VGG 16, Xception, and Inception with **95 to 99%** accuracy to classify drugs efficiently.

Data Science Salary Recommendation System.
Skills: Data Collecting, Data Pre-processing, Scripting, Regression, Model Evaluating.
- Scrapped about **1000** job listings from Glassdoor using Selenium for datasets by understanding data architecture.
- Cleaned **80%** of data, achieved MAE of **11.22** by using the Random Forest. Used linear regression as a baseline model.

Automated Sales Forecasting and Dashboard Creation using AutoAI and Python.
Skills: Python, Excel, Quantitative Analysis, ETL, Watson Studio.
- 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%.**

SKILLS

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

Machine Learning: Supervised & unsupervised learning, Pyspark, PyTorch, Apache Spark, NLTK, A/B testing, Hadoop

Toolkit: AWS (EC2, SageMaker), Snowflake, Power BI, Pycharm, Tableau, Databricks, Git, Github, Hive, Excel, PowerPoint

CERTIFICATION

AWS - Certified Solution Architect   May 2022 – Jul 2025