

# Lokesh Kank

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## EDUCATION

<b>San Diego State University</b>	Aug 2022 - Aug 2024
Master of Science in Big Data Analytics (BDA)	San Diego, CA, USA
Coursework: <i>Big Data Science and Analytics Platforms, GIS (Geospatial Information Systems) Programming with Python, Business Analytics, Advance Machine learning, GIS Database management.</i>	
<b>Savitribai Phule University</b>	Aug 2016 - May 2019
Bachelor in Mechanical Engineering – GPA 3.3/4	Pune, MH, India

## SKILLS AND KNOWLEDGE

**Programming Language:** Python, R, JavaScript, CSS, HTML, SQL.

**Big Data & Machine Learning:** Pandas, NumPy, PostgreSQL, R, Hadoop, Spark, PySpark, MongoDB, Plotly, matplotlib, Tensorflow, Keras, PyTorch, Scikit learn, Supervised (Regression, classification, clustering) and Unsupervised Learning, Resampling (Bootstrap, Cross Validation), Geospatial techniques, Convolutional Neural Networks (CNN).

**Data Science Technologies:** A/B testing, ETL, Data science pipeline (cleansing, Exploratory data analysis, Visualization, modeling, interpretation, statistics, Time Series Analysis, Hypothesis Testing, OOP, Data structures, and Algorithms.

**Toolkit:** Jupiter Notebook, Tableau, VS Code, Rstudio, PyCharm, Power BI, GitHub, Git, AWS.

**Soft skills:** CRM (Customer relationship management), Strong communication, learning quickly, self-motivated.

## PROJECTS

- Prevention of medication error using Deep Learning** (<https://sites.google.com/sdsu.edu/>)
- Analysed the problem of Medication errors on various drugs and developed Deep Learning models - **VGG-16, Xception, and Inception** with **95–99%** accuracy to **classify** pharmaceutical drugs efficiently.
  - Implemented **Image Preprocessing** (Edge detection, Masking, standardization, and normalization) to raise the image’s quality and **reduce** medication **errors** by **56%**.
  - Integrated **Tableau** interactive dashboard to display information about medication errors in the medical field.
- Infer energy star scores of new buildings**
- Conducted **data exploration, Data pre-processing**, and Built **regression/classification models** that can estimate a building's Energy Star Score based on selected features after **feature engineering** (one-hot encoding, Removed collinear features with collinear coefficient > **0.6**).
  - Established baseline error scores, and compare different models. Used **Random Forest** with **MEA 9.044**.
- Time series forecasting of energy generation data**
- Reduced the loss due to delays in the production system by **68%** by forecasting the undesirable breakdowns due to various factors (grid failure, scheduled maintenance, unscheduled maintenance, gearbox failure, etc.)
  - Increased energy production by **47%** by analyzing the past energy generation data of the wind turbine generator.
  - Fitted, evaluated, and made predictions with the - **Random Forest** regression model for **time series forecasting**;
  - Created a **Power BI** Dashboard to display the forecasted energy and breakdown data. Combined and converted multiple DGR with different data formats to a single unified **SQL database** for ease of **analyzing** and **forecasting**.
- Data science salary estimator**
- Completed an **end-to-end project** to calculate data scientist salaries and negotiate their compensation package.
  - Scrapped** about 1000 job listings from Glassdoor using Python and Selenium.
  - Quantified the value that businesses place on Python, R, Excel, AWS, and Spark using **Exploratory Data Analysis** and features that were engineered from the content of each job description.
  - Applied Grid search-CV to optimize **Linear, Lasso, and Random Forest Regressors** and find the ideal model.

## PROFESSIONAL EXPERIENCE

<b>Accenture, Advance Technology Center</b>	Feb 2020 – Jul 2022
(Application Development Analyst)	Pune, India
<ul style="list-style-type: none"><li>Exploited <b>SQL</b>, and <b>Python</b> for <b>Data Analysis</b>, fetched business insights, and <b>communicated</b> with clients. Saved <b>80 hrs</b> of additional work by <b>collaborating</b> with the team to develop automation in <b>python</b>.</li><li>Solved high-impact incidents using <b>SQL</b> within breach time. Experienced in migrating applications on <b>Linux machines</b>, and configuring server parameters on Linux and Windows machines. Experienced cross-functions.</li><li>Establishing connections with its interfaces, and deploying <b>hotfixes</b>, and releases in the PROD environment. The release has contributed <b>3.2 % (\$ 7.2 Million)</b> of quarterly profit made by clients for the Europe market.</li><li>Tools used: WinSCP, Putty, SC3, HP-ALM, JIRA, RDBMS (MS-SQL, Oracle), Microsoft Excel, Confluence, nBHB (Official Document management).</li></ul>	

## Certification

AWS - Certified Solution Architect	Issue on – May 2022 – Expire on – July 2025
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