

# Shagun Kala

Rajasthan, India | [kala.shagun@gmail.com](mailto:kala.shagun@gmail.com) | +91-8385898002 | [shagun-25.github.io](https://shagun-25.github.io)  
[linkedin.com/in/shagunkala/](https://linkedin.com/in/shagunkala/) | [kala-shagun.medium.com](https://kala-shagun.medium.com) | [kaggle.com/shagkala](https://kaggle.com/shagkala) | [github.com/Shagun-25](https://github.com/Shagun-25)

## EDUCATION

### Applied AI Bootcamp

Machine Learning Certification Program

Sept 2019 - Sept 2020

### Malaviya National Institute of Technology (MNIT Jaipur)

B. Tech. Civil Engineering

July 2015 - May 2019

CGPA 8.32

### Subodh Public School

Intermediate (10+2)

May 2015

CBSE – 94.4%

## SKILLS

- Programming Languages: Python, SQL, C++, HTML, Django
- Machine Learning: Regression/Classification, Deep Learning-NLP, Ensemble/Boosting, PCA, Imbalanced learn.
- Data Engineering: PySpark, SparkSQL, ETL, SparkML, MongoDB, Databricks, AWS (EC2, EMR, S3), Flask, Docker, Hadoop
- Libraries and framework: Tensorflow, Pytorch, NumPy, Pandas, Scikit-Learn, Matplotlib, Seaborn, Spacy, Scipy, Git, SVN
- Dashboard/Visualization: Tableau/PowerBI, Excel, Powerpoint
- Cloud: Azure, AWS

## BUSINESS EXPERIENCE

### Accenture, Gurugram, India | Data Science Analyst

May 2021 – June 2023

- Worked in the core development team for Accenture's Responsible AI toolkit to build ethical AI solutions
- Developed fairness tests using statistical techniques to identify bias in the data and ML models
- Implemented explainability packages using InterpretML, GradCAM, and LIME to enable transparency in black box models
- Developed design methodology for Accenture's RAI Algorithmic Assessment to screen AI projects over RAI compliance
- Performed Cross-Sell Product Research and built a propensity scoring system to rank prospects using a regression model
- Trained ML model to rank broadband customer prospects, improving client's customer acquisition rate by 150%.

### Capgemini, Pune, India | Senior Analyst

Jul 2019 – April 2021

- Recommended different sales motion to customer segments using a Random Forest model on client's PNIB B2B data.
- Created a Next Best Action Recommender for sellers of an ecommerce client using an unsupervised ML approach.
- Developed an Image Template Matching algorithm on aircraft sectional drawings, saving 200+ man hours for the client.
- Optimized the runtime performance of a HPC solver script from 32 seconds to 7 seconds used to enable Modular Approach.

## ACADEMIC PROJECTS

### NewsGroup BERT Classifier – End to End production-grade project using MLOps tools

- Fine-tuned a DistilBERT classifier to classify NewsGroup article files into 20 different categories and deployed using Flask.
- Built CI/CD pipeline to automatically deploy the commits on the AWS EC2 instance using, docker and GitHub Actions.

### Stock Market Prediction using News Sentiments – Detailed Time Series Analysis

- Forecasted the Nifty50 index prices with LSTM, Facebook Prophet using Twitter News Sentiment Polarity.
- Performed model quantization by converting Float32 weights to Float16, reducing the prediction time by 1/10th.

## ACHIEVEMENTS & AWARDS

- Received 'Wizard@Work' STAR award in 2022 for outstanding contribution in the Customer Acquisition Project at Accenture.
- 4X Certified in Azure Cloud Platform; Microsoft Azure Data Scientist Associate.
- 2X Kaggle Expert; Active data science blogger on Medium having 30k+ viewers.