

Yogesh Khandelwal

Experience in end-to-end development and deployment of ML-based applications

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EXPERIENCE

Fractal Analytics, Mumbai - *Data Science Consultant*

AUGUST 2021 — PRESENT

Developed a React.js, R, and Python utility to automate Excel data ingestion, transformation, and SQL database loading, enhancing data processing efficiency and quality.

Designed and implemented a hospital readmission prediction model for a prominent insurance provider, yielding a **10%** enhancement in performance over the previous model. This achievement led to a cost savings of **\$5 million** and a potential of reducing **17%** organization's caregiver workforce.

Indian School of Business, Hyderabad— *Analyst/Research Associate*

AUGUST 2018 - AUGUST 2021

Automated text extraction from the quarterly earnings call transcripts of S&P 1500 firms of 15 years and 32+ GB data using python & boosted the speed of the project by 8x.

Built a text classifier and achieved 93% cross-validation accuracy from baseline accuracy of 59%.

Developed and deployed 10 different shiny apps.

Conducted in-depth text analysis of 3,500 job descriptions and presented significant discoveries to inform curriculum enhancements.

Tata Technologies, Mumbai— *Data Scientist*

JUNE 2017 - JULY 2018

Analyzed, developed, and deployed ML models using service, demographics & post service feedback datasets to predict customer's propensity to purchase Annual Maintenance Contract & helped in increasing AMC revenue by 40%

Initiated migration of existing ML model implementation on SAS E-Miner to Python by saving 20 million INR in license renewal

Institute for Development & Research in Banking Technology, Hyderabad— *Research Associate*

MARCH 2016 - JUNE 2017

Led team of 3 interns & successfully delivered GUI-based Data Analytics Software for banking professionals to perform basic data processing, EDA, statistical analysis, and building ML models.

Extracted & cleaned bank datasets and prepared case studies on Loan default prediction, churn prediction, customer segmentation, and RFM analysis.

SKILLS

Tools:

Python (pandas, seaborn, sci-kit-learn, NLTK, spaCy, Gensim), R, PySpark, Flask, Streamlit, Docker, TensorFlow, **AWS**, SQL, Databricks, MLFlow, PowerBI, **R Shiny**

ML Skills:

Supervised & Unsupervised Learning, Text Analysis, Statistical Analysis, Data Visualization, Topic Modeling, Deep Learning

CERTIFICATES

Deep Learning

Specialization -

Coursera.

SAS Certified Base

Programmer for

SAS 9.4- SAS

Social Network

Theory & Analytics

-IIT Hyderabad

AWS Certified

Cloud Practitioner-

Udemy

Credit Risk

Modelling in R-

DataCamp

EDUCATION

Department of Data Science & Forecasting, UTD, DAVV INDORE— *M.Tech with specialization in Data Science (FSP)*

JUNE 2014 - JUNE 2016

Department of Computer Engineering, UTD, DAVV INDORE— *Bachelor of Computer Engineering*

SEP 2009 - MAY 2013

PROJECTS

ETL utility for processing historical pricing deals for a major pharma manufacturer

Created a utility integrating React.js for the frontend and R/Python for the backend to ingest, transform, and load Excel files into a SQL pipeline. Improved data processing speed, quality, and reduced manual effort, resulting in better decision-making. Managed architecture, full-stack development, deployment, and maintenance

Tools: R, Python, Azure, ReactJs, SQL

Hospital Readmission Prediction for a leading US based health payer

Developed a hospital readmission prediction model for a leading insurance payer, resulting in a **10%** improvement in performance compared to existing model and with extra **5Mn** cost savings and **17%** reduction in caregiver workforce for the organization.

[Techniques: Supervised ML Tools: PySpark, Databricks, Azure, mlflowDesign and developed and ETL utility as an extension to existing tool.

Analysis of Capital Market response to firm focuses on supply and demand-side innovation.

Data Engineered accounting and finance variables from multiple sources like WRDS, capital IQ, and Bloomberg

Built a text classifier with 93% accuracy which was further utilized to calculate the proportion of relevant sentences in the text.

Sports analytics project for leading sports company

Collected data from the social media handles of all the teams owned by JSW sports.

Performed exploratory data analysis on posts and users' comments and reported a comparative study which was utilized for consulting to increase fan engagement on different platforms.

Propensity to Buy AMC for leading automobile manufacturer.

Data Engineered customer service, sales, demographic, and complaint data and built ML model to predict customers likelihood to purchase Annual Maintenance Contract for passenger vehicles. ML Model-based approach helped in increasing sales revenue by 40%