

AKSHAY O P

Data Scientist • Bangalore • +91 9496 104 438
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TECHNICAL SKILLS

- **Machine Learning and Data Science:** Python, Machine Learning, Statistical Modelling, Data Preprocessing, Forecasting, Pandas, Catboost, Sklearn, prophet, TensorFlow, Feature Engineering, Clustering Object Detection and segmentation, NLP, Nltk, Spacy
- **Data Visualizations and Analysis:** Excel, Metabase, Plotly, Matplotlib.
- **Databases and deployment:** SQL, MongoDB, DynamoDB, Lambda, API gateway, flask, REST API's, AWS Glue, AWS EC2, AWS
- **Version Control:** Git

WORK EXPERIENCE

AI Consultant (Python)

10/2024-Present

Hapzea, Bangalore, IN

- Built a face recognition system using RetinaFace for detection and ArcFace for embedding generation.
- Implemented FAISS for similarity search and stored embeddings in AWS DynamoDB.
- Deployed the solution on AWS EC2, exposing functionality via Lambda and API Gateway for scalable API access.

Data Scientist

11/2023-09/2024

Kinara Capital, Bangalore, IN

- Developed and implemented an advanced application flow funnel dashboard using Python, Metabase, and AWS Glue. Integrated diverse data sources with SQL, automating lifecycle analysis from lead inception to disbursement. Streamlined data analysis, enhancing strategic decision-making for the CEO and management team.
- Transformed Expected Credit Loss and Loss forecasting through Python automation, bypassing Excel complexity. This achieved a 10x efficiency boost and significantly accelerated processes, ensuring streamlined operations and markedly faster forecasting.

Data Scientist, Contract

08/2023-10/2023

DataInception, Chesterfield (Remote).

- Led in-depth analysis of diverse sensor data, driving insights through rigorous Exploratory Data Analysis (EDA), data cleansing, and advanced error correction methods like SMOTE etc.
- Crafted compelling data visualizations and detailed reports using Matplotlib and Plotly.
- Pioneered the development of advanced machine learning models for classification and time series regression, employing cutting-edge techniques such as Catboost, Neural Networks, and Prophet. Achieved outstanding accuracy rates approaching 98% and deployed models as a Flask API, seamlessly integrated with Docker for scalable and efficient deployment.

Machine Learning Engineer,

06/2022-07/2023

Climate Connect Digital, Pune, IN

- Conducted comprehensive research and analysis on a range of machine learning strategies, including Catboost, Xgboost and TCN, to enhance renewables energy forecasting. Developed a cutting-edge forecasting model that consistently outperformed existing models, achieving an impressive ~28% reduction in Mean Absolute Percentage Error (MAPE).
- Spearheaded the establishment of a centralized data repository, utilizing inbuilt APIs and Python programming on a Linux server to efficiently collect, store, preprocess, and integrate diverse data attributes from various sources into a single accessible platform.
- Studied industry-standard strategies for time-series forecasting. Implemented Python automation for daily model performance analysis, report generation, and email distribution.

Backend/Growth Intern

09/2021-05/2022

Supertext.ai, Bangalore, IN

Developed and maintained a quiz bot using JavaScript and chatclay platform for a multi-National sports company as part of their media campaign. And handled regular client meetings and lead generation work.

EDUCATION

Bachelor Of Engineering in CSE ,2020

CMS College Of Engineering and Technology, Coimbatore.