# Mohammad Danish

Data Scientist | Mobile Programming LLC Pvt. Ltd, Pune

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PROFESSIONAL SUMMARY

Data Scientist with more than 4 years of industrial experience in **Machine learning**, **Predictive Modelling** and Data Science as well as Natural language Processing. Have expertise in preparing and preprocessing data, deriving useful insights from data, developing, and deploying highly scalable machine learning models. Highly adept as machine learning technique clustering & classification, statistical modeling, Predictive Modelling, NLP, text analysis, **Data Analysis** to increase business efficiency.

**EXPERIENCE SUMMARY**
- A professional with 4 years of experience in **Python**, Data Science ,**Predictive Modelling**, and **Machine learning**, with expertise in different domain projects.
- Experience with common data science toolkits, such as Anaconda, NumPy, MATLAB, Pandas, Seaborn, SciKit-Learn, NLTK, Data Analysis etc.
- Great communication & interpersonal skills
- Well applied statistics skills, such as distributions, statistical testing, regression.
- Good scripting and programming skills
- Excellent understanding of machine learning techniques and algorithms, such as k-NN, Naive Bayes, Decision Tree, etc.
- Knowledge about Deep learning algorithms such as ANN, CNN, RNN, LSTM etc.
- Hands on Experience in Different Transformer models such as MobileBERT, BERT, DistilBERT etc.

**SKILLSET**

**Machine Learning and Data Science:**
- **Machine learning**: Linear Regression, Ridge & Lasso Regression, Logistic Regression, Naïve Bayes Classifier, k Nearest Neighbors Classifier, Decision Tree, Random Forest, Gradient Descent, Ada-Boost, K-means Clustering, Support Vector Machine.
- Text Processing: NLTK, Term Frequency-Inverse Document Frequency (TF-IDF), Word2Vec, Bag of Words, BERT, Transformer.
- **Python**/ML Packages: NumPy, Pandas, Sci-py, Scikit-learn, Seaborn, Matplotlib, Flask, TensorFlow, Pytorch, Keras
- Deep learning: ANN, CNN, RNN, LSTM GRU and In build Architecture such As BERT,LLM,,GAN, chat-gpt, Open AI(Whisper), Vosk model.
- Image/ Video processing: Computer Vision (OpenCV), YOLO, Detectron2, Faster RCNN.

**Supporting Technologies:**
- Languages: **Python**
- Cloud Platforms/Services: Aws
- Web stack: Streamlit, Postman application

- Database: SQL Server
- Version Control System: GitHub
- Data Visualization: Seaborn, Matplotlibi, Pandas-Profiling

**WORK EXPERIENCE**

Work Experience (Current):
- Organization      : Mobile Programming LLC Pvt Ltd, Pune
  Designation       : Data Scientist
  Duration          : From Dec 2022 to Till Date

Work Experience (Previous):
- Organization      : Golokspace Technology,Indore (3yrs.)
  Designation       : Data Scientist
  Duration          : From Nov 2019 to Sep 2022

**PROJECT DETAILS**

**Project 1 : Digital Asset Management with Object Detection, Face Recognition, and Gesture Detection for Reliance**
**Client:** Reliance, Mumbai .
**Tools and Technologies:** Pytorch, Scikit-learn, Matplotlib, streamlit, TensorFlow, Karas, Transformer model ,**Python**,Detectron2, Yolo, **Machine Learning**, Data Processing and Analysis, Feature Engineering, Deep Learning, SQL

**Description:**
This project focuses on digital asset management for Reliance, with key components such as object detection, face recognition, and gesture detection. It also includes emotion detection for a comprehensive approach to managing digital assets efficiently. The outcome of this project is a versatile solution for handling digital media that can enhance Reliance's digital asset management capabilities.

**Responsibilities**
- Analyze important data and information to create solutions to organizational problems and process a large amount of structured and unstructured data.
- Collecting and preparing the images and video data for analysis.
- Exploring and visualizing the data to gain insights and identify patterns.
- Training and fine-tuning deep learning models for object detection using detectron2 and yolo  Evaluating model performance and making improvements as necessary.
- Help to create models that automate systems, development of algorithms, and monitor their performance. Present information to company managers and directors to help them make important commercial decisions.
- Use data science to present solutions to problems and also help the organization improve service efficiency and effectiveness.
- Collaborating with other team members to integrate the model into front end system

**Project 2**
Video Transcribe with configurable timestamp and emotion and person detection from videos
**Client:** Reliance, Mumbai
**Tools and Technologies:** NumPy, Pandas, Scikit-learn, Matplotlib, Seaborn, Flask, **Python**, **Machine Learning**, Deep learnings, Feature Engineering, Vosk, Whisper, detectron2, yolo, facenet

**Description:**
Video transcribe base on hindi and english video using vosk and whisper models to analyze with configurable timestamps with there metadata as well complete object detection as well emotions recognition from video and face recognition create these two combined solution genrate with come master json integrated with frontend to detect what person say at specific time with their emotions and gestures

**Responsibilities**
- A large dataset of essays is collected, preferably with scores assigned by human experts. Mine and analyze data improvement of product development and business strategies.
- Selecting and feature engineering the relevant features of text data that can be used by machine learning models to improve their accuracy and effectiveness.
- Use vosk and whisper model for hindi and english video for business outcomes.
- Coordinate with different functional teams to implement models and monitor outcomes.
- Develop processes and tools to monitor and analyze model performance and data accuracy.

**Project3: Spam Detection Project to Protect Users from Phishing and Fraud**
**Company:** JIO, Mumbai
**Tools and Technologies:** NumPy, Pandas, Scikit-learn, Matplotlib, Seaborn, Flask, **Python**, **Machine Learning**, Data Processing and Analysis, Feature Engineering, NLP, Sentiment Analysis, BERT,RNN, Deep Learning ,Classification algorithm, LLM, **Predictive Modelling**.

**Description:**

Emails can be a valuable resource for communication and information. However, there is a growing problem of spam emails that are designed to phish for personal information or to spread malware. This project is developing an AI-powered spam detection system that can identify and block spam emails before they reach users.

**Responsibilities**
- Analyze information to create solutions to organizational problems and Process a large amount of structured and unstructured data.
- Identify Solve interesting problems involving rich datasets Health domains.
- Perform different exploratory data analysis through visualization, statistical analysis and get meaningful insight.
- Identify key emerging trends in the industry and maintain a rich reference material.
- Training and fine-tuning the sentiment analysis model using the prepared data.
- Evaluating the model's performance using appropriate metrics.

**Project4: Generative AI Voice Cloning and Speaking Images Project for Jio**
**Company:** JIO, Mumbai
**Tools and Technologies: Python**, Pytorch, Open-CV, Tensorflow, Deep Learning, GAN

**Description:**

This project involved developing a generative AI model that could clone a person's voice and generate speaking images from text descriptions. The voice cloning model was trained on a dataset of speech recordings from a variety of speakers, and the speaking image generator was trained on a dataset of images of people speaking.

**Responsibilities**
- Maintained regular communication with Jio's technical and project management teams, providing progress updates and addressing their specific requirements.
- was responsible for designing and training the generative AI models.

**ACADEMIC**
- Bachelor Of Engineering / SPPU / 2019/ 7.04 Cgpa
- Diploma in Engineering/PR Patil Polytechnic, Amravati/ 2016/69.82%
- SSC Akola/ 2013 / 76%