Mohammad Sarfraz Khan

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SUMMARY:

Data Science enthusiast with practical experience across Machine Learning, Deep Learning, NLP, and Computer Vision. Proficient in Python, SQL, Power BI, and advanced EDA for data-driven insights. Skilled in building and deploying predictive models using TensorFlow, Scikit-learn, and statistical analysis. Experienced in end-to-end project development from data collection and preprocessing to visualization and model evaluation delivering actionable business intelligence.

TECHNICAL SKILLS:

Programming: Python, SQL
ML/DL: Scikit-Learn, TensorFlow, Keras, OpenCV, CNN, ResNet, NLP
Data Analysis: Pandas, NumPy, EDA, Statistics, Feature Engineering
Visualization: Power BI, Matplotlib, Seaborn
Tools: Git, Jupyter Notebook, Power Query, DAX
Database: MySQL

EXPERIENCE:

TechSimPlus Learning | Intern
Bhopal,MP | June 2024 - August 2024
- Gained hands-on experience in end-to-end Data Science workflows covering Python, Statistics, and EDA.
- Performed data analysis and visualization using Power BI and SQL to derive actionable insights.
- Applied Machine Learning, Deep Learning, Computer Vision, and NLP techniques to solve real-world problems.

PROJECTS:

Digit-Regonition-Using-CNN | [Link](#)
Python|TensorFlow|NumPy|Pandas|Matplotlib|Deep Learning|CNN|Computer Vision
- Built a TensorFlow-based CNN model achieving 98%+ accuracy on the MNIST dataset.
- Implemented data augmentation, dropout layers, and Adam optimizer to enhance performance.
- Integrated OpenCV for real-time image recognition and automated predictions.

OralScan AI – Oral Cancer Detection System (CNN + Transfer Learning) | [Link](#)
 Python | TensorFlow | Keras | OpenCV | Computer Vision | Image Classification
- Built a CNN + transfer learning model achieving 94% accuracy for oral cancer detection.
- Automated image preprocessing and augmentation to improve model robustness.
- Developed a real-time interface for early oral lesion detection to assist healthcare professionals.

Patients-Analytics-Dashboard | [Link](#)
Power BI|SQL|DAX|Data Analytics
- Designed an interactive Power BI dashboard to analyze hospital data, treatments, and billing.
- Optimized DAX queries and Power Query to reduce report loading time by 30%.
- Implemented Row-Level Security (RLS) for data privacy compliance.

Sentiment Analysis Web App (Text & Voice)[Link](#)
Python | Streamlit | Scikit-learn | NLP | Machine Learning
- Built a sentiment analysis app classifying text and voice input as Positive, Negative, or Neutral.
- Implemented speech-to-text conversion and TF-IDF-based ML model for robust predictions.
- Developed a user-friendly interface for real-time sentiment detection and visualization.

EDUCATION:

LNCT's Group of Colleges , Bhopal, MP
B.TECH. (AIDS) - 7 CGPA
Nov 2022 - Oct 2026

Bihar School Examination Board
Higher Secondary- 61.5%
Sitamarhi ,Bihar

Sacred Heart School ,Sitamarhi (Class 10)
Central Board Secondary Education
58%