MOHAMMAD AZEEM KHAN

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EDUCATION

B.Tech in Computer Science Engineering **2021 – 2025**
Indian Institute of Information Technology, Nagpur (IIIT Nagpur) *Nagpur, India*

PROJECTS

Eye Disease Classification (code)| Python | TensorFlow | Keras | OpenCV **Feb 2024 – Mar 2024**

EyeDiseaseClassifier.app

- Developed and compared models using VGG-16, VGG-19, DenseNet, MobileNet, ResNet, and their hybrid, achieving 96% accuracy with the hybrid model for diagnosing eye diseases.
- Preprocessed images with OpenCV and Keras utilities.
- Enhanced model generalization with extensive data augmentation.
- Optimized model using GroupKFold cross-validation.
- Deployed the model on Streamlit for accessible disease detection.

Sentiment Analysis (code)| Python | Streamlit | NLP | Word2Vec **Mar 2024**

SentimentalAI.app

- Built a sentiment analysis app using Streamlit, Python, and NLP.
- Implemented text preprocessing including tag removal, normalization, and contraction expansion.
- Used pre-trained Word2Vec for text vectorization.
- Developed a model to classify sentiment as positive or negative.
- Deployed with a user-friendly interface for sentiment classification.

Data Analytics Portal (code)| Python | Streamlit | Pandas | Plotly **Aug 2024**

DataAnalyzer.app

- Developed a user-friendly portal that allows users to upload files for interactive data analysis.
- Implemented features for EDA, value counts, group-by operations, and dynamic visualizations, enhancing data exploration.

Academic Risk Prediction | Python | LightGBM | CatBoost | Data Analysis **Dec 2023**

- Developed a predictive model for academic risk using Kaggle's synthetic dataset, employing ensemble techniques for high accuracy.
- Conducted extensive exploratory data analysis (EDA) and visualization to uncover key patterns and insights, guiding feature engineering.
- Utilized CatBoost and LightGBM with Stratified K-Folds Cross-Validation to enhance model robustness.

TECHNICAL SKILLS

Languages: Python, C, C++, SQL, Java(basic) ,JavaScript(Node.js, React.js(Basic)), HTML, CSS,
Developer Tools: VS Code, Postman, Git / GitHub, Jupyter Notebook, Google Colab, PowerBI, Kaggle
Databases: MySQL,MongoDB
Expertise: Data Analysis, Machine Learning, Deep Learning(ANN,CNN), NLP, Web scraping(static)
Technologies/Frameworks: Numpy, Pandas, Matplotlib, Seaborn, Scikit-learn, Tensorflow, Keras, OpenCV, BeautifulSoup

CERTIFICATIONS

Python for Data Science, AI & Development Issued By IBM **Oct 2023**

* Proficient in NumPy, Pandas, Matplotlib, and web scraping with Beautiful Soup.

Data Analysis with Python Issued By IBM **Oct 2023**

* Skilled in data manipulation, visualization, and applied statistics and machine learning Algorithms.

Machine Learning with Python (WITH HONORS) Issued By IBM **Jan 2024**

* Implemented a range of machine learning algorithms including Logistic Regression, Decision Trees, Random Forests,SVMs ,and KNN.
* Enhanced models using ensemble methods, cross-validation, and hyperparameter tuning.

COURSEWORK

• Machine Learning • DSA • Computer Networks • OOPs Concepts • Database Management System • Operating System • Software Engineering and Architecture