

Abu-Hurerah

(AI\ML ENGINEER)

📞 (+92) 348-2685910 | ✉️ Abuhurerah.saleem@gmail.com | LinkedIn [/in/hurerahsaleem/](https://www.linkedin.com/in/hurerahsaleem/)

Professional Summary

Driven AI/ML Engineer with a computer science degree, eager to apply academic knowledge and practical experience.

Education

Bachelor's in computer science (FAST-NUCES Dean's list 3x)

CGPA: **3.42/4.0** 2020 - 2024

Skills

ML/AI: Python, TensorFlow, Keras, Flask, OpenCV, Pandas, NumPy, Scikit-Learn, Matplotlib

Professional Experience

Digital Marketing Head (EHM-IT Service)

Over 85+ Clients in a Year Part-time (Remote)

- Lead the development and execution of integrated digital marketing strategies, increasing online visibility and user engagement by 30% through SEO, PPC, social media, and content marketing initiatives.
- Direct a team of 10+ marketing professionals in designing and implementing campaigns, resulting in a 40% improvement in conversion rates and a 25% increase in ROI year-over-year.

Selected-Projects

Leaf Care; Food Plant Disease and Pest Recognition using the Image Processing

Final Year Project | Research and Development

Python, TensorFlow, OpenCV, Keras, React-Native

- Developed a **custom CNN model** to identify and localize disease and pest infections on leaf images, providing diagnostic solutions and remedies to enhance agricultural outcomes.
- In a custom CNN model, the architecture starts with a convolutional layer, followed by a **dense block**, a **transition block**, global average pooling, a fully connected layer, and finally, a softmax activation layer.
- Developed a **mobile application** in parallel that captures leaf images, runs our custom CNN model, and displays diagnostic results, enhancing user accessibility and real-time decision-making.
- Achieved **94% accuracy** (**219K Parameters** less than any state-of-the-art Models) in disease detection through advanced modeling techniques.
- Currently focusing on Publishing our research work into Journal **Computers and Electronics in Agriculture (8.3 IF)**

Agriculture Yield Production Analysis and Predictions

HTML/CSS, JavaScript, Python, Matplotlib, Scikit-learn.

- Utilized an agricultural yield production dataset from Kaggle, with comprehensive **preprocessing** applied.
- We applied essential preprocessing techniques to the dataset and tested various machine learning models, achieving **92% accuracy** with the **Random Forest model**.
- Developed a user-friendly website for **real-time production analysis** based on user-input values.

Cyber-Security Anomaly Detection using Machine Learning

Python, Seaborn, Pandas, Matplotlib, NumPy, Scikit-learn.

- Utilized the KDD Cup 1999 Dataset, which includes 43,000 records detailing network link operations.
- Applied preprocessing techniques such as handling categorical variables, splitting data, removing outliers, and standardizing features.
- Employed Logistic Regression and Naïve Bayes Classification models to detect network intrusions, achieving accuracies of 97.20% and 84.17%, respectively.

Research

"Optimizing Parameters for Effective and Efficient Apple Disease Detection: A Smart Approach"- Computer and Electronics in Agriculture (Sent to Editor)

Courses

Machine Learning

Artificial Intelligence

Computer Vision

Probability and Statistics

Deep Learning: Convolutional Neural Network (Udemy)