FAIROZ KHAN

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EDUCATION

Minor Degree (Data Science & Machine Learning), 07/2024 – Present
Indian Institute of Technology (IIT) Mandi – CCE

Bachelor of Engineering (B.E.) – Artificial Intelligence & 2021 – 2025
Machine Learning, *Bangalore College of Engineering & Technology*

SKILLS

Programming Languages: Python │ Web Development *(HTML, CSS, JavaScript)*

Data Science & Machine Learning: NumPy │ Pandas │ Matplotlib │ Seaborn │ Scikit-learn │ Data Preprocessing │ Feature Engineering │ Model Evaluation │ Deployment *(Basics)*

Soft Skills: Professional Ethics │ Effective Communication │ Teamwork │ Adaptability

Tools & Platforms: Git/GitHub │ Jupyter Notebook │ Google Colab │ VS Code │ Power BI *(Basics)*

Databases: MySQL │ MongoDB

PROJECTS

Fruit Image Classifier with CNNs (IIT Mandi - CCE) 09/2025
- **Tech: Python, PyTorch, Gradio, CLIP, VGG16, ResNet-50, Fruits360**
- Built and evaluated custom CNNs alongside VGG16 and ResNet-50 with advanced augmentation and a zero-shot CLIP baseline to classify Fruits360 images.
- Led dataset preprocessing and class consolidation into nine balanced categories; set up consistent evaluation and a Gradio demo for real-time inference.
- Delivered improved class balance and generalization with a practical prediction app, demonstrating feasibility for automated sorting and quality control.

Healthcare-Based NLP Automated Data Cleaning 02/2025
- **Tech: Python, spaCy, NLTK, Gensim, Random Forest, Naive Bayes, SQL, NoSQL, Dash/Power BI**
- Engineered an NLP pipeline to cleanse and standardize EHRs across structured and unstructured sources, reducing noise and harmonizing medical entities.
- Applied robust preprocessing (tokenization, normalization), NER to extract clinical entities, and classifiers (Random Forest, Naive Bayes) to categorize and validate records.
- Implemented data quality KPIs (accuracy, completeness, consistency) and dashboards to monitor improvements and support analytics workflows.

Medicine Recommendation System 07/2024
- **Tech: Python, scikit-learn, Flask, Pandas, HTML/CSS**
- Built a symptom-driven ML engine to predict likely conditions and recommend medicines and workout routines, emphasizing safe defaults and clear disclaimers.
- Developed a Flask web app with a clean UI to collect inputs and serve predictions securely, enabling fast prototyping and stakeholder feedback.
- Established data handling protocols for privacy and confidentiality, aligning with common healthcare data practices.

CERTIFICATES

N.S.D.C Internship Certificates 🔗
(Sept 2024 – Mar 2025)

CSIR Fourth Paradigm Institute (CSIR-4PI)
Internship Certificate 🔗
(Jan 2024 – Mar 2024)

AI Mental Fitness Tracker Internship Certificate 🔗
(Jun 2023 - Jul 2023)