

I IRFAN AHMED

Machine Learning Engineer

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ABOUT ME

As a Machine Learning and Data Scientist Engineer, I specialize in developing intelligent systems and leveraging data to drive innovative solutions. With expertise in Python, machine learning algorithms, data engineering, and natural language processing, I'm focused on enhancing data-driven decision-making and advancing real-world applications. I aim to contribute to forward-thinking organizations while continuously growing and delivering impactful results.

INTERNSHIPS

- May 2024-
July 2024

Machine Learning & Data Science Engineer

Data Planet Technologies Private Ltd, On-site

 - Integrated NLP with SQL databases to improve user interaction.
 - Designed a web app to convert SQL queries from natural language..
 - Enabled data display and visualization for better insights.
 - Applied machine learning and data engineering to optimize architecture.
 - Used DuckDB to enhance PostgreSQL connectivity and system efficiency.
- Aug2023-
Oct 2023

Chatbot Development

Modern Agriculture Technology & Innovation Corporation

 - Developed a web application featuring a generative AI-powered chatbot with text and speech support.
 - Designed the chatbot to provide solutions and conduct problem analysis for queries related to mango trees and farms.
 - Integrated a YOLO-based machine learning model for detecting leaf diseases.
 - Enhanced the application's capability to support agricultural diagnostics and management.

EDUCATION

- Expected
Graduation-
Aug 2026

Bachelor of Technology: Artificial Intelligence and Data Science

Shiv Nadar University Chennai

CGPA (till 4rth semester): 8.43
- 2021- 2022

Higher Secondary

SBOA School & Junior College, Anna Nagar

Percentage: 91.6%
- 2019-2020

Senior Secondary

SBOA School & Junior College, Anna Nagar

Percentage: 90.40%

CERTIFICATIONS

- Data Analysis with Pandas & Python
- Tableau Training For Data Science
- Exploratory Data Analysis
- Generative Adversarial Network (GANs)
- Complete Machine Learning & Data Science Bootcamp (Udemy)
- Object Oriented Programming in Java & Python
- Web Development with React & FastAPI

HACKATHONS & COMPETITIONS

- Solvathon 2024

Top 10 finalist at THIT 2024 for developing a medical assistance website with integrated data and a chatbot for professionals and researchers.
- Pragyan 2023

Secured 3rd Place in Autonomous Drone racing
- ideas to Impact 2024

Top 20 finalist All Over India For Developing an Solar Powered Autonomous Beach Cleaning Rover

PROJECTS

- Zen - The AI Database Manager

Created a AI Chatbot integrated DuckDB with PostgreSQL to create a conversational data retrieval system using GPT-3.5 Turbo for NLP, enabling real-time SQL querying and data visualization without local storage.
- Enhanced Machine Learning Model for Efficient Human and Animal Detection

Improved a machine learning model for human and animal detection by incorporating a Histogram of Oriented Gradients (HOG) descriptor, achieving enhanced accuracy with minimal computational resources.
- Integrated Health Accessible System

The platform features a dynamic UI with generative AI for multilingual chat, voice assistance, and comprehensive medical resources, including disease info, treatment guidelines, nearby health centers, and government schemes.
- Agricultural Centric Database Management System

Designed and implemented a SQL-based DBMS for agricultural supply chain management, optimizing crop production, distribution, and market analysis.

RESEARCH PAPER

- Human Face Sketch to Real Human Face Generation

Researched style-controlled face generation. Leveraged Stable Diffusion XL and T2I adapters for precise image manipulation.

SKILLS

- Programming Languages:

 - Python
 - Node.js
 - Embedded C/C++
 - Java
 - HTML/CSS
- Database Management:

 - SQL (MySQL Workbench)
 - PostgreSQL
 - DuckDb
 - Tomato
- Machine Learning:

 - Libraries: Scikit-Learn, Pandas, NumPy, Matplotlib, Pytorch, Keras, Ultralytics
 - Predictive Modelling: Regression, Classification, Clustering, Regularization, Model Selection, Augmentation
- Analytical Skills:

 - Statistical Analysis: (Descriptive and Inferential Statistics) Hypothesis Testing, Regression Analysis
- Tools:

 - Google Colab
 - Microsoft Excel
 - Jupyter notebook
 - PGAdmin
 - VS code
 - Sublime Text
- OPERATING SYSTEM PROFICIENCY

 - Windows ★★★★★
 - LinuxOS ★★★★★
- Soft Skills:

 - Critical thinking
 - Team Leading & Coordination
 - Communication Skills
 - Problem Solving
 - Self-Motivation

TRAINING

- Artificial Intelligence & Data Science (IITM)
- Metaverse and Digital Twins (BRILLO ,NITT)

LANGUAGES KNOWN

- English ★★★★★★
- Tamil ★★★★★★
- Hindi ★★★★★★
- Urdu ★★★★★★
- Arabic ★★★★★★
- German ★★★★★★