

Mohammed Nahyan Ashraf

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Professional Summary

AI Specialist and Data Scientist with hands-on experience in data analysis, machine learning, and AI-based projects. Strong foundation in Python, R, and SQL, with a proven ability to solve real-world problems through data-driven solutions. Detail-oriented and collaborative, with a passion for applying AI to enhance decision-making, automation, and operational efficiency. Recently completed a technical degree, equipped with both academic knowledge and practical project experience.

Education

APJ Abdul Kalam Technological University

November 2021 - May 2025

MES College of Engineering, Kuttippuram

B.Tech in Artificial Intelligence and Data Science

Relevant Coursework: Artificial Intelligence, Machine Learning, Data Science, Data Structures, Algorithm Analysis, Database Management, Deep Learning

NMHSS Thirunavaya

June 2019 - March 2021

Higher Secondary, Computer Science

Certifications

- **Accessing Hadoop Data Using Hive** - IBM
- **Big Data Analytics Course** - Great Learning Academy
- **Apache Pig 101** - IBM Developer Skills Network
- **Introduction to AI** - Kodacy

Experience

Data Analyst Intern

May 2025 – Present

Unified Mentor, Remote

- Designed and developed machine learning algorithms and AI models for data analysis and automation
- Implemented AI solutions to enhance system performance and scalability
- Collaborated with cross-functional teams to integrate AI technologies into existing systems
- Managed DevOps processes to streamline model deployment and monitoring
- Conducted research on cutting-edge AI techniques to improve product capabilities

Projects

Twitter Sentiment Analysis

- Developed a sentiment analysis model to classify tweets into positive, negative, and neutral categories
- Applied Natural Language Processing (NLP) techniques for data cleaning, tokenization, and feature extraction
- Performed deep-level exploratory analysis and visualizations to understand sentiment trends across various topics
- **Tools:** Python, NLTK, Matplotlib

AI-Based Image Dehazing System

- Developed a Generative Adversarial Network (GAN) model using generator-discriminator architecture to remove haze from images and enhance clarity
- Implemented Dark Channel Prior algorithms for atmospheric light estimation and transmission map refinement
- Integrated a video dehazing module with OpenCV to process video frames in real-time
- **Tools:** Python, TensorFlow/PyTorch, Flask, OpenCV

Technical Skills

Programming Languages: Python, R, C, SQL, Java

AI/ML Technologies: Artificial Intelligence, Machine Learning, Data Science, Deep Learning, Neural Networks, GAN, CNN

Data Analysis: Data Preprocessing, Data Cleaning, Exploratory Data Analysis (EDA), Data Visualization

Libraries & Frameworks: Pandas, NumPy, Scikit-learn, Matplotlib, Seaborn, TensorFlow, Keras, NLTK

Tools & Platforms: Power BI, Tableau, Jupyter Notebook, Microsoft Excel, R Studio, Visual Studio Code

Soft Skills: Public Relations, Communication, Leadership, Decision Making, Problem Solving, Teamwork

Leadership & Extracurricular Activities

NSS Volunteer

- Actively engaged in rural development, health drives, environmental campaigns, and community education
- Organized and led NSS camps to promote teamwork and leadership skills