

Shahid Ul Islam

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SUMMARY

A results-driven Data Scientist and Analyst with hands-on experience in Python, SQL, Machine Learning and Deep Learning. Adept at building predictive models, performing in-depth data analysis, and developing web applications to deliver actionable insights. Proven ability in the entire data lifecycle, from preprocessing and feature engineering to model evaluation and deployment. Passionate about leveraging AI and data-driven solutions to solve complex, real-world problems and contribute to technological innovation.

EDUCATION

Islamic University Of Science And Technology.

Master of Computer Applications (MCA)

Awantipora, Pulwama, Jammu and Kashmir

August 2023 – August 2025

Indira Gandhi National Open University.

Bachelor Of Computer Applications (BCA)

New Delhi, India

January 2020 – June 2023

WORK EXPERIENCE

Immortal Software Solutions

Bangalore, Karnatka, India (Feb 2025 – May 2025)

Python Developer (Internship)

- Built a tool using Python that automatically collects and organizes data from websites, helping improve the accuracy of information gathered.
- Improved a data processing system to clean and handle data more efficiently, making the workflow faster and smoother.
- Created a user-friendly dashboard with web technologies to display important insights, helping teams make quicker and better decisions
- Worked with Google Cloud Platform (GCP), gaining hands-on experience with cloud service management and CI/CD pipelines.

PROJECT EXPERIENCE

Transfer Learning for Respiratory Disease Classification in Chest X-Rays

Islamic University Of Science and Technology Awantipora, Kashmir (May 2025 – Aug 2025)

- Developed a deep learning model to automatically classify respiratory diseases (Viral Pneumonia, Bacterial Pneumonia, and COVID-19) from chest X-ray images, achieving a classification Accuracy of 86%.
- Implemented a transfer learning approach by fine-tuning a pre-trained Convolutional Neural Network (CNN), VGG16 and Vision Transformer, ViT B/16, significantly accelerating model training and improved predictive performance.
- Engineered a robust data pipeline to process and augment a dataset of 6,500 images, employing techniques like rotation and flipping to enhance model generalization.
- Evaluated the model using key metrics including precision, recall, and F1-score to provide a comprehensive assessment of its diagnostic capabilities.
- GitHub: <https://github.com/Khanz9664/Transfer-Learning-for-Respiratory-Disease-Classification>

Breast Cancer Prediction Using Machine Learning

Islamic University Of Science and Technology Awantipora, Kashmir (Nov 2024 – Feb 2025)

- Developed a web application with Streamlit that uses a Random Forest model to classify tumors with 98% accuracy, providing a tool for early breast cancer detection.
- Engineered features and performed extensive data preprocessing, which improved model performance by 15%.
- GitHub: <https://github.com/Khanz9664/Breast-Cancer-Prediction>

Apple Sales Analysis & Dashboard

Islamic University Of Science and Technology Awantipora, Kashmir (Dec 2024 – Jan 2025)

- Conducted a comprehensive analysis of the Apple Sales 2024 dataset, identifying key product trends and regional sales patterns.
- Developed an interactive dashboard using Streamlit, Plotly and Dash to visualize revenue insights and product performance, providing actionable recommendations for sales forecasting.
- GitHub: <https://github.com/Khanz9664/Comprehensive-Data-Analysis-Visualization-of-Apple-Product-Sales>

Medicine Review Categorization

Islamic University Of Science and Technology Awantipora, Kashmir (Jun 2024 – Sep 2024)

- Engineered a web application to classify medicine reviews, achieving great accuracy in categorizing patient feedback using TF-IDF vectorization and a classification model.
- Built a user-friendly interface with Streamlit for real-time review analysis, enabling healthcare professionals to quickly understand patient sentiment.
- GitHub: <https://github.com/Khanz9664/Medicine-Review-Categorization>

Portfolio Website

Islamic University Of Science and Technology Awantipora, Kashmir (Mar 2024 – Aug 2024)

- Developed a responsive personal portfolio website using HTML, CSS, and JavaScript to showcase projects and technical skills.
- Implemented interactive features such as smooth scrolling, modals, and hover effects to enhance user experience.
- Ensured mobile compatibility and cross-browser functionality, achieving consistent performance across devices and platforms.
- Deployed the website via GitHub Pages, enabling easy updates and public access to the portfolio.
- GitHub: <https://github.com/Khanz9664/portfolio>
- Live Website: <https://khanz9664.github.io/portfolio>

Criminal Records Management System

Indira Gandhi National Open University Srinagar, Jammu and Kashmir (Aug 2022 - Dec 2022)

- Developed a centralized web-based application for managing and analyzing criminal records. The system is designed to streamline operations for law enforcement agencies such as the police, NCRB, and CBI, enabling them to securely manage, update, and retrieve criminal data efficiently.
- Github : <https://github.com/Khanz9664/criminal-records-system>

LICENSES AND CERTIFICATIONS

Courses:

- Machine Learning I (Columbia University)
- Unsupervised Learning, Recommenders, Reinforcement Learning (Coursera)
- Advanced Learning Algorithms (Coursera)
- Supervised Machine Learning: Regression and Classification (Coursera)
- Professional Diploma in Python Development (Udemy)
- Fundamental Course of Data Architecture 2.0. (Udemy)
- Machine Learning Certification Course for Beginners. (Analytics Vidya)
- Advanced Excel Course. (ELearnMarkets)
- CSS, Bootstrap and Javascript and Python Stack Course. (Udemy)

Badges:

- Analyzing and Visualizing Data in Looker (Google)
- Introduction To Data Analytics on Google Cloud (Google)
- Introduction To Generative AI (Google)
- Introduction To Large Language Models (Google)
- Introduction To Responsible AI (Google)
- Professional Machine Learning Engineer Study Guide (Google)

SKILLS

Programming Languages: Python, C, C++, SQL, HTML, CSS, JS

Data Science & Machine Learning: Data Analysis & Preprocessing, Data Visualization, Supervised & Unsupervised Learning, Model Evaluation & Tuning, Feature Engineering

Artificial Intelligence & Natural Language Processing: Natural Language Processing (NLP), Sentiment Analysis (TextBlob), Text Classification, Tokenization, Language Modeling

Database Management: Relational Database Design, SQL Query Optimization, Data Warehousing, Experience with MySQL, PostgreSQL, Google BigQuery

Technical Tools: Jupyter Notebooks, Git & GitHub, Docker, VS Code, Excel, Google Cloud Platform (BigQuery, Looker), Pandas, NumPy, Matplotlib, Seaborn