

Abdullah Ahmad

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EDUCATION

FAST-NUCES

Bachelor of Science in Computer Science

Lahore, Pakistan

Sept. 2021 – Present

Unique College

FSc. Pre-Engineering

Lahore, Pakistan

Aug. 2019 – Aug. 2021

PROJECTS

Text Restore | github.com/textrestore | Python, React, Tensorflow, PyTorch, OpenCV

August 2024 – Present

- Developed a React-based website
- Doing research and developing a super-resolution pipeline to enhance degraded Urdu text images
- Created a custom dataset by collecting Urdu manuscripts and applying artificial degradation techniques
- Training, Fine-tuning and comparison of state-of-the-art models (SRCNN, ESRGAN, Real-ESRGAN) with PSNR and SSIM metrics for evaluation

Bitcoin Price Prediction | github.com/BTCPrice | Python, Pandas, Scikit-Learn

August 2024 – Present

- Preprocessed Bitcoin data using Pandas, focusing on handling missing values, scaling, and feature engineering for time-series analysis
- Planned to develop models predicting daily high, daily low, weekly, and monthly prices for enhanced financial insights

Static Bug Analysis | github.com/BugAnalysis | Python, PyTorch, BERT, Gemini API

Oct. 2024 – Dec. 2024

- Developed a static analysis tool utilizing a BERT-based model to detect vulnerabilities and assess danger levels in code snippets.
- Created a custom dataset comprising code snippets labeled with specific vulnerabilities and danger levels to train and evaluate the model.
- Integrated the Gemini API to provide automated code fix suggestions, enhancing code security and reliability.

EcoSort | github.com/EcoSort | Python, Tensorflow, Flask, React

March 2024 – May 2024

- Developed an image classification system to sort waste into categories for improved recycling
- Built and trained a deep learning model using TensorFlow for accurate waste classification
- Deployed a full-stack web application with a Flask backend and a React-based frontend for interactive sorting demonstrations

Secure Blockchain Voting System | github.com/voting | Go (Golang)

Jan. 2024 – Jan. 2024

- Developed a blockchain-based voting system
- Created core functionalities in Go for voter registration, vote casting, and election result calculation, ensuring robust performance and security
- Enabled easy usage by allowing users to run the main program to simulate the voting process and display outcomes

EXPERIENCE

Volunteer Experience

STACKS-Pakistan FAST Chapter

- Current Vice-President and Former Head

Sept. 2023 – Present

Lahore, Pakistan

Summer Internship

Bright Network UK

- Collaborated in a cross-cultural team, developing skills in Problem Solving, Networking, and teamwork
- Conducted research and analysis on achieving Net Zero Emissions, presenting innovative solutions and supporting technology implementations

July 2023 – August 2023

Remote

TECHNICAL SKILLS

Languages: Python, C/C++, SQL, JavaScript, HTML/CSS, Solidity, Golang, Assembly

Frameworks: React, Node.js, Flask, Tensorflow, WordPress

Developer Tools: Git, Docker, VS Code, Visual Studio, PyCharm

Libraries: Pandas, NumPy, Matplotlib