
MUDASSIR LATIF

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SUMMARY

Aspiring Computer and Information Systems student with a strong interest in semiconductor technology and integrated circuit (IC) design. Eager to gain hands-on experience in circuit simulation, digital and analog design, and chip development through professional training. Motivated to build a solid foundation in IC design principles, enhance practical skills, and contribute to innovative hardware solutions in the semiconductor industry.

EXPERIENCE

Internship at The National Center in Big Data and Cloud Computing (NCBC)

Built a weather forecasting system using machine learning models like LSTM, Transformers, and SARIMA using different optimizers like Ada Belief, stochastic gradient descent, and Adam.

Internship at Qubit Informatics

Worked on backend development of Keenu app (merchant and user banking application) using Java.

Internship at Cod-soft

Made simple projects using Python.

EDUCATION

Bachelor of Computer Information Systems and Technology (CIS)

2022 - continue

NED University of Engineering and Technology

- CGPA: 3.77 / 4.0

Pre-engineering

2020 - 2022

DJ Sindh Government Science College

- 93%

SKILLS & TOOLS

- Project management
- Django, Docker, GitHub, Google Collab, Putty, Vivado
- VS Code, MySQL, SQL, MongoDB
- Python, C, HTML, CSS, JavaScript

PROJECTS

Stop Watch

Built a stop watch that goes from 0 – 1 min and also has a pause and resume push button and a restart button.

IoT-Based Environmental Monitoring System

Developed a real-time environmental monitoring system using ESP32 and DHT22 sensor to measure temperature and humidity. Sensor data was transmitted to a Mongoose Realtime Database and displayed on a custom Node.js-based web dashboard hosted on Vercel. Implemented Over-The-Air (OTA) firmware updates and synchronized system time using NTP for accurate timestamping of data.

Image Classification using CIFAR-10 Dataset

Built a deep learning model to classify images from the CIFAR-10 dataset, which consists of 60,000 32x32 color images across 10 categories. Utilized convolutional neural networks (CNNs) with layers such as Conv2D, MaxPooling, and Dropout for feature extraction and regularization. Trained and evaluated the model using TensorFlow/Keras, achieving significant accuracy improvements through hyperparameter tuning and data augmentation techniques.

Time Series Forecasting with Classical and Deep Learning Models

Built forecasting models using ARIMA, SARIMA, and Transformer architectures. Optimized performance with Adam, AdaBelief, and SGD optimizers. Focused on accurate trend prediction and model efficiency in time series data.

Online Furniture Store

Developed a full-stack e-commerce platform using HTML, CSS, Django, and MySQL.

Implemented product categorization, supplier management, and customer feedback systems.

Weather Forecast and Alert System

Created a weather forecasting system in C, integrating an API for data and sending email alerts to users.

Edu Learn

Built Edu Learn, a Django-based e-learning platform inspired by Coursera.

Designed role-based access for Students, Teachers, and Admin, with dedicated dashboards for efficient management.

Integrated features like course enrollment, content upload, quiz management, and progress tracking.

Courses

Prompt Engineering, AI essentials, Machine Learning, Digital Logic Design ,Digital System Design, Digital Signal Processing , Computer Architecture ,Computer Engineering Workshop, Computer Communication Networks, Data Structures and Algorithms, Database Management, Object-Oriented Programming, Fundamentals of Computer Engineering, Python for Data Science (NCAI, NED University), Scientific Research Writing

Activities

- Participated in Qubit-Combat
- Secured 6th position in speed programming event at Sir Syed University
- Participated in Olympiad 4.0 and 3.0 as a member of the football team