

RAFAY MAHMOOD

Machine Learning Engineer

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Summary

I am a **Machine Learning, Data Science** and **Analytics** enthusiast, working every day on learning and develop efficient solutions. I really believe to have strong background of project management and community relations

Education

University of Central Punjab

Bs Computer Sciences

July 2022 | CGPA: 3.17

Punjab Group of Colleges

F.Sc - Pre-Engineering

March 2018 | 789/1100 (A)

Skills

- Python • C /C++
- Large Language Model (LLM)
- NLP • NER • Transformers
- LLM Prompt Tuning
- Hyperparameter Tuning
- CNN • RNN • Fine Tuning
- Statistical Analysis • ETL
- Hugging Face • Inference APIs
- Model Deployment • AWS
- TensorFlow • Keras • PyTorch
- SQL • NoSQL • DBMS
- Sci-Kit • NLTK • Seaborn
- EDA • Predictive Modeling
- GitHub • Git • Flask • Docker

Coursework

Object Oriented Programming
Data Structures
Machine Learning
Deep Learning
Data Science
Artificial Intelligence
Big Data Analytics
Database Administrations
Probability and Statistics

Professional Experience

Punch Group LLC

Dec 2022 – Current

- AI/ML Engineer

- Trained and Deployed on server, a classification model to identify Sales Email prospects having accuracy of more than 90%.
- Working on an open source LLM named BLOOM (*Big Science*) to auto generate responses to emails with an accuracy over 75% compared to GPT-3. Exploring other LLMs such as Flan-T5, GPT, XLNet etc.

Leverify LLC

Oct 2022 – Dec 2022

- Business Automation Executive

- Collaborate with other department to automate the process of matching MPNs of suppliers on Amazon listing products, by building that gets 73% accurate results. Improved the previous solution to achieve results x2 times fast and with increased accuracy

Radical X

Aug 2022 – Oct 2022

- Virtual Project Manage Intern - Python

- Managed a project to develop an unsupervised learning algorithm to make squads of intern data based on regions, time zone, country and many other factors.

Upwork - Freelance

Jan 2021 – Dec 2021

- Machine Learning Engineer

- Worked on projects related to data driven fields such as ML, DL, DS, NLP, OCR etc with the job success of more than 90%.

SoloInsight Inc.

Aug 2019 – Sep 2019

- PHP Development Intern

- Used *PHP* and *SQL* to manage how data is stored in tables and user interact with it.

Projects

Squad Matching Algorithm

Aug 2022 – Sep 2022

- Developed a system which aids in generating squads of interns having similarities while considering each individual's comfort. K-Means clustering was used to carry out the task. Further Python and required libraries such as Pandas, Matplot were used to show insights of data

NLP Text Extraction

Jul 2022 – Aug 2022

- Wrote a script which extract text from images and PDF files, cleanse the data, parse and tokenize it according to requirements. Concept of resume parsing by companies. Python was used along with the libraries like Tesseract, PyPDF and NLTK.

Extras

Video Games
Gymnasium
Badminton

AI based fitness app using CNN

Oct 2021 – Mar 2022

- Trained a ML model for Image Classification System by the accuracy of more than 75% by using CNN technique and *Tensorflow*, *Keras* and *Python* as main tools.

Appo-Fit Application

Mar 2022 – July 2022

- Created an application integrated to the Image Classification model, for prediction using *Flutter* connected to *Firebase Firestore* as a database

R.E.D

Sep 2021 - Oct 2021

- A web portal prototype for a product/service working on Restoring Environment Depletion using *Bootstrap*, *CSS*, *JS*.

Chess Game

Sep 2021 - Oct 2021

- Developed Chess game as a learning project by using C++ as my main tool with graphics (Borland Graphics Interface BGI).

Heart Attack Analysis

July 2021 – July 2021

- Did the analysis on a data of cardiac illness patient to identify the main factors(vitals) contributing in heart illness by using *Python* and *Data Analytic* techniques such as *Seaborn*, *Matplot*, *Pandas*, *NumPy*, etc.

Leadership, Awards and Certs.

ML Research Paper submitted to IICAET 2022

July 2022

- Research was done on Food images. Research was about how data reacts to various CNN models. Models which are custom defined and pre trained also.

Director Logistics

Mar 2022 – July 2022

- Worked voluntarily as a Director Logistics at Student led organization in Campus

National Winner at Global Battle Of Minds'21 by BAT

- Competed in Global finals among 13 countries, representing Pakistan at Global Finals

Nov 2021 – Dec 2022

Samsung I. Campus

Oct 2021 – Feb 2022

- Secured a seat for AI training course by Samsung.

Python by University of Michigan

Python for Data Science, AI and Development by IBM

Project Data Science by IBM

Machine Learning by Stanford (Andrew Ng)