AHMAD MAHMOOD

Lahore, Pakistan· +92-306-8611367· ahmadmahmood447@gmail.com · https://www.linkedin.com/in/ahmad-mahmood-627b27163

A skilled developer and data scientist with strong problem-solving and development abilities working in the domain from the last 3+ years. Natural Language Processing (NLP), Image Processing, Classification, Regression and Clustering Problem Solving, Supervised Unsupervised Learnings, Predictive Modeling, Machine Learning and Deep Learning Toolkits, and developing AI solutions are all areas in which I have worked. Furthermore, having hands-on experience on developing Flask API's and deploying on various platforms AWS, PythonAnywhere, Heroku etc. I am an energetic, hardworking individual who is dedicated to advancing my career.

PROFESSIONAL EXPERIENCE

Ilm O Irfan Technologies
Machine Learning Engineer 2022 – Present

- Developing Machine Learning, Natural Language based Products

Freelance Platforms
Experienced Freelancer 2019 – Present

- 2.5+ Years of Experience Developing AI/ML based Solutions, API's

Pakistan Children Heart Foundation (PCHF) (Intern)
Donor Department 2021 – 2021

- Conducting thorough research
- Operate Customer Relationship Management (CRM) database

O Consulting (Pvt.) Ltd 2019 – 2021
Data Scientist

- Utilized advanced querying, visualization, and analytics tools to analyze and process complex data sets.
- Developed polished visualizations to share results of data analyses.
- Assessed accuracy and effectiveness of new and existing data sources and data analysis techniques.
- Worked on various Machine Learning-AI Solutions

Naimat Saleem Trust
Database Operator 2020 – 2021

- Managing Database and generating reports for future analysis

EDUCATION

Comsats University Islamabad, Lahore, Pakistan 2023

- Master of Philosophy in Computer Science

Bahria University Islamabad, Lahore, Pakistan

- Bachelor of Science, Information technology

2021

SKILLS & Tools

Skills: Python, Machine Learning, Deep Learning, Transfer Learning, GPT-3, Data Annotation, Feature Extraction, Feature Selection, Text Processing, Dimensionality Reduction, Scikit-learn, Scikit-multilearn, TensorFlow and Kera's, Pandas, Numpy, NLTK, WEKA, MEKA, Power BI, Visualization, Matplotlib, Collab, Kaggle Server, Jupyter Notebook, PyCharm, Visual Studio Code, Spyder, Flask Framework.

Projects

Natural Language Processing

- Talent Ranker: AI-based HRM System
- Cross-genre Multi-label Emotion Classification on Mono-lingual and Code-mixed Text using Content-based, Machine Learning, Deep Learning and Transfer Learning
- Single Label Emotion Classification on mono-lingual text using Content-based and Machine
- Multi-label Emotion Classification on English text using Deep Learning based and Transfer Learning based Methods
- GPT-3: Fine-tunning Question Answering Bot System
- Covid-19 Chatbot using Transformers (MultiHeadAttention) based Neural Network
- Sentiment Analysis from text using Machine Learning and Deep Learning
- Personality Prediction from text using Machine Learning Approach
- Fake News Detection from an English text using Machine Learning Approach
- Multi-label Fake News Detection from URDU text using Machine Learning Approach (MEKA)
- Multi-label Multi-lingual Smart Reply Suggestion System for an Email using Machine Learning, Deep Learning and Transfer Learning based Approach
- Multi-label Emotion Classification on English, Roman Urdu texts using Genetics Algorithm and Machine Learning Approach
- Paraphrase Detection from text using Machine Learning Approach
- Multi-label Emotion Classification on English text using State-of-the-art Feature Selection Technique (Lime and Shap)
- Data gathering and Annotation: Multi-label Multi-lingual Smart Reply Suggestion System for an Email
- Software Requirement Priority using Bag-of-word and Machine Learning based Methods
- Learning based Methods
- Multi-label Emotion Classification on mono-lingual text using Content-based and Machine Learning based Methods
- Software Requirement Classification using TF-IDF Approach.
- Text Reuse Detection using Transformer based and Machine Learning based Methods
- Software Requirement Gathering using Natural Language Processing Techniques
- PSL Players Ranking using Natural Language based Approaches

- Property Price Prediction using Machine Learning and Deep Learning Approach
- Recommender System: Assist Visitors finding Correct Places based on their interest using Natural Language based Approaches
- Predictive Systems using Machine Learning and Feature Selection based Approaches
- Multi-target Author Profiling using Machine Learning and Deep Learning
- GPA-Prediction System
- Wireless network sensoring and clustering using Machine Learning techniques

Image Processing

- Age and Gender Identification from Videos using Deep Learning and Transfer Learning based Approach
- Fabric Defect Detection using Machine Learning Approach
- Toxicity Detection from Animated Images using Machine Learning and Deep Learning Approach
- Behavior Detection from Videos Using Machine Learning and Deep Learning based Approach
- Anomaly Detection from Videos using Classical Machine Learning based Approach
- Image-Captioning using Encoder-Decoder based Deep Learning Approach
- Pneumonia Disease Prediction using Computer Vision Techniques
- Fire and Smoke Detection from Videos using CNN based Deep Neural Network
- Build Deep Neural Network from Scratch

Books Published

- Multi-label and Multi-target Text Classification using Classical Machine Learning

Tests and Certifications

- **Microsoft**
  - Microsoft Certified: Azure Administrator Associate (Legacy) (https://www.credly.com/badges/06b82756-5960-48de-9dd6-734d46d442fc/linked_in_profile)
- **Turing**
  - Python
  - Machine Learning
  - Flask
  - SQL
- **TESTDOME**
  - Python (https://www.testdome.com/certificates/9d054562053d42c58643f7748c17b8c5)
- **Cisco**
  - Introduction to Cyber Security (https://www.credly.com/badges/b0c4eb5f-3893-4e8d-8686-0cadc1eef4e2/linked_in_profile)

- **Coursera**
  - Natural Language Processing with Classification and Vector Spaces (https://coursera.org/share/82ae555e1d4b3715d6119d558826e8a6)
  - Python Basics (https://www.coursera.org/account/accomplishments/verify/H5PQLWN9KHB3)
  - Django for Beginners: Creating Applications and Views (https://coursera.org/share/7f8370de85daa34fef953ea5cbb851bb)
  - Specialization: Networking in Google Cloud (https://www.coursera.org/account/accomplishments/specialization/NKCZ4J6DMPUT)
  - Google Cloud Fundamentals: Core Infrastructure (https://www.coursera.org/account/accomplishments/certificate/UQWXSWLZ9NUY)
  - Networking in Google Cloud: Defining and Implementing Networks (https://www.coursera.org/account/accomplishments/certificate/XA7FH3R7UBWB)
  - Networking in Google Cloud: Hybrid Connectivity and Network Management (https://www.coursera.org/account/accomplishments/certificate/P3MNDGX4RCU8)
- **FazalQadirKhanIslamicInstitute**
  - Achieve 1st position: Make your place in top 3% searchers of web using Google and Google Scholar

Interests

- Book Reading
- Poetry