# Arslan Arif

## Artificial Intelligence Engineer

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## PROFILE

I am an AI Engineer with 3 years of professional experience with expertise in python, machine learning and natural language processing. I have worked on a variety of AI projects including computer vision and facial recognition systems, AI chatbots, data scraping, content aggregation, text classification, sentiment analysis and reinforcement learning agents to name a few. I have also worked on web apps and web services and have experience in the Django Rest framework. I have excellent problem-solving skills with strong basics in programming, data structures and OOP as well as data science, statistics and mathematics. I have the ability to quickly adapt to new tools and technologies.

## EXPERIENCE

**Artificial Intelligence Engineer** - *RNS Solutions, Rawalpindi*

[May 2021 - Present]

- Designed and developed an educational chatbot using ML and NLP techniques.
- Performed text pre-processing and prepared datasets for text classification models.
- Developed a web-based system in django rest framework to perform data manipulation and unique data analysis for NLP projects.
- Developed an object detection and OCR based system to detect, extract and parse different parts of text message screenshots from smartphones.
- Developed an AI crypto trading bot using reinforcement learning techniques.
- Deployed different AI based solutions in production using docker and aws.

**Software Engineer (Python AI/NLP)** - *Tech Avenue Pvt Ltd, Islamabad*

[July 2019 - April 2021]

- Analysed complex computer vision problems, designed and developed surveillance systems using facial recognition and tracking.
- Designed and developed content aggregator solutions by the means of web scraping.
- Used text analysis, classification, trend and sentiment analysis to develop an intelligent real-time news aggregator system.
- Designed and deployed complex databases for different projects in NoSQL database systems as well as relational database systems.
- Participated in the development of big data softwares using Hadoop/HDFS, HBase and other big data applications.

**Jr. Android Developer** - *Invotyx, Rawalpindi*

[July 2018 - November 2018]

- Developed android IOT applications to control different smart home devices.

- Developed android utility apps like chatbot messengers, photo editors and photo filter apps as per requirements and specifications.

## SOFT SKILLS

Communication    Persuasion    Collaboration    Problem Solving    Critical Thinking

Adaptability    Leadership    Team Management    Creativity    Emotional Intelligence

## TECHNOLOGY STACK

### Languages and DBs

- Python
- Java
- C#
- C/C++
- JavaScript
- jQuery
- MongoDB
- SQL Server
- SQLite
- Elastic Search
- Hadoop/HDFS
- HBase

### Frameworks/Libraries

- Pandas, Numpy
- Tensorflow
- PyTorch
- Rasa
- Tesseract
- OpenCV
- Scrapy
- Beautiful Soup
- Stale Baselines
- Open AI gym envs
- Django
- Flask

### Other Skills

- Design Patterns
- REST APIs
- Socket Programming
- Multithreading and Multiprocessing.
- Openstreet Maps
- GPS, Positioning and routes
- Git/Version Control
- Bitbucket/Jira
- Docker
- AWS compute/store

## EDUCATION

**BS Computer Science [2015 - 2019]**

*Quaid-i-Azam University, Islamabad*

Final Year Project - Smart Gallery

- Developed an AI based photo gallery with the feature of visual image search.
- The app uses tf-lite object detection model to recognize objects and provides a visual search option to the users.

## LANGUAGES

- English (Professional)
- Urdu (Native)

## INTERESTS/HOBBIES

- Self educating myself about religion, science, history, social affairs, education, economy, diplomacy, political systems and ideologies, geographies and cultures.
- Study and write literature and poetry.
- Networking with different types of people for professional growth and PR.
- Participating in volunteer social works.

## REFERENCES

References will be provided if required.