K. Adil Rahman

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**Education**

**Masters in Advanced Computer Science with Data Science**Jan 2023 – Jan 2024  
*University of Strathclyde*

Key Modules:

* **Machine Learning for Data Analytics**

**Projects**:

1. I developed an algorithm for predicting the popularity score of a song using machine learning.
2. In a group, we solved a machine learning classification problem that aims to predict the top genre that a song belongs to.
3. I solved a regression problem on flight price prediction using random forest regression.
4. In a group, solved a goodreads classification problem using machine learning and deep learning methods.
5. In a group, solved emotion recognition classification problem using machine learning and deep learning methods.

**Skills Developed**: Data pre-processing, feature engineering, model selection, model evaluation, Hyperparameter tuning, Regression analysis, team collaboration, NumPy, Pandas, Scikit-learn.

* **Deep Learning Theory and Practice**

**Projects**:

1. Worked on a project on Natural Language processing where I had to use Autoencoder in order to convert/translate French text to English text.
2. I indulged in a group project along with colleagues to work on facial recognition using CNN.
3. I Worked on a project indulging with deep neural network in order to create Facial recognition, which can detect face in real time.

**Skills Developed**: Adv. NLP, autoencoders, data pre-processing, Adv. CNN, image pre-processing, GAN’S, Deep Neural Networks, Keras, Pytorch, TensorFlow.

* **Big Data Tools and Techniques**

**Projects**:

1. Worked on mySQL project in order to perform initial data cleansing, transformation, and validation using MySQL before moving the data to a HDFS.
2. I handled large volumes of semi-structured or unstructured data using a NoSQL database.
3. Used MapReduce programming to distribute large datasets across multiple computers.
4. Developed a search engine for a distributed large dataset by working with OpenSearch.

**Skills Developed**: SQL proficiency, data integrity, NoSQL database, data modelling, MapReduce Programming, Distributed computing, OpenSearch indexing.

* **Distributed Information Systems**

**Projects**:

1. Worked on business scenario and implemented relational database, XML and ontology based on it. Based on the database solved business requirement using SQL, XQuery and SPARQL.

**Skills Developed**: MySQL, XML, Ontology, Structuring Data, XQuery, SPARQL.

* **Dissertation: Monocular Depth Estimation**

In this project, depth estimation was a domain of Computer Vision that required a lot of research. SOTA provided me with experience in estimating depth in both outdoor and indoor environments. Due to my assignment, I researched papers to understand outdoor environment issues and protocols for pre-processing steps. To address the issue, I chose a fully convolutional residual network, which performed as well as a SOTA and better than some. Overall Research gave an understanding of Computer vision, data cleansing, data pre-processing, model creation, hyperparameters, post-processing and evaluation.

**Skills Developed**: Computer Vision, Adv. CNN, Technical Writing, Pytorch, TensorFlow, Keras.

**Bachelor’s in engineering – Informatics and Computer Science** June 2019 – Aug 2022  
*Varna Free University*

* **Thesis: Application and Web Development**

BarBer –I accomplished the development of a website and application for a client. The applications enable online booking and reservations for a local men’s grooming shop in Varna, Bulgaria. I accomplished to satisfy client’s need by tweaking the fullstack development. The project involved in direct communication with client and the project was planned accordingly.

**Work Experience**

**React.js Developer intern,** *AK Technology*  Jun 2022-Oct 2022

I Worked as an intern along with the front-end team, dealt with inbuilt React.js toolkit for creating frontend features and created data visualization tools, libraries, and reusable code for prospects. Working alongside experienced Senior Web developers Not only educated me in the field of programming and development but also gave me experience in working under pressure as a team to accomplish goals in a limited time frame. Overall experience and knowledge helped me to contribute my skills and to gain skills required for Development.

**IT Skills**

Programming Skills: **SQL**, **Python**, **JSON**, XML, **MongoDB**, Ontology, XQuery, SPARQL, OpenSearch, JavaScript, Java, PHP, HTML, CSS, WordPress, Kotlin, Git, Bash.

Framework & Libraries: **TensorFlow**, **PyTorch**, **Keras**, **NumPy**, **Pandas**, **Scikit-learn**, **MapReduce**, **Apache Spark**, **Hadoop Distributed File System(HDFS)**, React.js, Node.js, Firebase, Room, Jetpack Compose.

Software tools & application: **AWS**, **Microsoft** **Office**, **Google** **Colab**, **Jupyter** **Notebook**, **pyCharm**, **Android** **Studio**, **Visual** **Studio** **Code**, **Eclipse**.

**Computing Competitions**

**1st Position in Application development,** *INOEAR project- Bulgaria*  15th July 2022

I Worked along with the Metropolitan Municipality and the Association of Bulgaria in order to create and implement an activity calculator into an existing INOEAR website. My execution to counter the specific requirement was selected out of all the other candidates and was implemented into their website.

**References will be provided upon request.**