Rana Hamza Intisar

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in ranahamzaintisar 🌐 Personal Website

DOB: 25th May 1995
Nationality: Pakistani

WORK EXPERIENCE

July 2019 – June 2020

Data and Machine Learning Engineer

Alvary (A company of Allianz), Hannover, Germany

- Built a demo use case for the Granary platform with the Opensky Network live API by building micro-services
- Deployments were packaged using docker and deployed on Kubernetes via cloud services
- Actively participated in sprints for the development of the Granary platform
- Built data pipelines using Spring Boot for the data ingestion, transformation and loading
- Converted real time data into time series and stored in time series database (InfluxDB)
- Used state of art Unsupervised Learning methods for Anomaly Detection in live data streams
- Summarised all the results through in depth visualisations on metabase and graffana

March 2019 – May 2019

Data Analyst - Internship

Lobensberg Gute Weine, Bremen, Germany

- Used predictive analysis to build a product recommendation system providing customers with the best choice of wines using machine learning algorithm such as TensorFlow and Google Cloud Analytics Platform
- Conducted an analysis on reactivating customers by providing them with customized offers and bundles by looking at previous trends of their buying behaviors
- Analyzed and summarized the results of the analysis independently to give thorough presentations to the full team

August 2017 – August 2018

Data Engineer - Professional Services Consultant

Teradata Global Delivery Centre, Islamabad, Pakistan

- Big Data Technology development using Hadoop and Spark
- Source to target mappings for Telecom data sets
- SQL development
- Writing, testing, scheduling and monitoring jobs
- User acceptance testing

June 2016 – August 2016

Data Engineer - Internship

Teradata Pakistan PVT LTD, Islamabad, Pakistan

- Increasing the security of the cluster with Ranger
- Handling large data sets and transformations with Presto
- Data Visualizations with Tableau
- SQL Development

EDUCATION

August 2018 – June 2020

Masters of Science in Data Engineering

Jacobs University, Bremen, Germany

Focusing on Data Analytics, Data Mining, Machine Learning, Statistical Modeling, Big Data-bases and cloud services, Databases, Data Visualization and Image Processing, Data Security

August 2013 – July 2017	**Bachelor of Science in Computer Sciences**

National University of Computer and Emerging Sciences, Islamabad, Pakistan

Focusing on Data Structures, Advanced Programming, Database Systems, Artificial Intelligence, Data Warehousing, Concurrent and Distributed systems

PROJECTS

February 2020 – June 2020	**Anomaly Detection Implementation**

Alvary (A company of Allianz), Hannover, Germany

- Data Ingestion, Transformation and Storage was performed on the data using Java Spring boot, Docker and Kubernetes. Deployments were done using AWS and Azure cloud services.
- Metrics for hourly and daily windows were generated and anomaly detection models were run on live data streams along with hourly and daily windows using Python and the docker images were deployed on Kubernetes

August 2017 – August 2018	**VEON Implementation**

Teradata Global Delivery Centre, Islamabad, Pakistan

- Development and deployment of Data lake using Java Spark, then inserting data in hive
- Development and deployment of triggers using Java, reading data from Kafka broker, transforming and storing cached data in ignite and persisting data in Cassandra to generate offers and bundles at run time

Extracurricular Activities

June 2016 – August 2017	**Vice President Fast Photography Society**

National University of Computer and Emerging Sciences, Islamabad, Pakistan

- Managing a team of 10 people
- Assigning the team members tasks on events for capturing photographs according to their expertise

LANGUAGE SKILLS

Urdu	English	German
Mother Tongue	*Fluent*	*Basic Knowledge*

TECHNICAL SKILLS

Programming Languages	Java (SE+EE+FX), Python, R, C++, GO, UNIX Shell
Databases	MySQL, Oracle, Teradata, SQLite, PostgreSQL, InfluxDB, HQL, Cassandra
Big Data Tools	Hadoop, Spark, Hive, Pig, Sqoop, Kafka, MapReduce, Ignite, Java Spark, Airflow
Data Science Tools	Pandas, NumPy, SciPy, Scikit-learn, Keras, Matplotlib, Tensorflow
Software	Google Kubernetes, Helm, Linux, Docker, Oracle, Microsoft SQL Server, Eclipse, Android Studio, NetBeans, AWS, R-Studio, Anaconda, Jupiter Notebook, Graffana, Metabase, Tableau

Workshops/Conferences

May 2018	**Apache Ignite and Apache Cassandra Training**

Teradata Global Delivery Centre, Islamabad, Pakistan

- Ignite and Cassandra documentation
- Hands on experience on the Hadoop virtual machine

February 2018	**Teradata Factory Training**

Teradata Pakistan Pvt LTD, Islamabad, Pakistan

- Teradata database basics, architecture and physical database design
- Application Utilities
- Database Administration

ADDITIONAL DETAILS

Hobbies & Interests	*Photography, Travelling, Camping*