Naresh Kumar M

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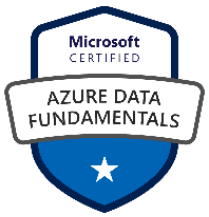
E-portfolio | Academic portfolio



PROFESSIONAL SUMMARY

As an aspiring **Data Scientist**, I am currently enhancing my skills through the **Post Graduate Program in Artificial Intelligence and Machine Learning (PGP-AIML) at the Texas McCombs School of Business**. This program is equipping me with advanced knowledge in AI, machine learning, and deep learning, preparing me to transform raw data into actionable insights.

In addition to this, I am also **pursuing a Masters of Data Science from Daekin University**, which is set to commence in June 2024. This future endeavour underscores my commitment to continuous learning and my passion for data science.

With **3.5 years of experience** as a Cloud IoT Full Stack Developer, I have developed a deep understanding of cloud IoT applications, frontend and backend applications, and Azure. My hands-on experience in managing IoT devices using Azure IoT hub, Azure functions, and MQTT protocol has provided me with a strong foundation in coding and problem-solving.

TECHNICAL SKILLS

Cloud Technologies	: Microsoft Azure Cloud, Active Directory (AD), Azure Kubernetes Service (AKS), , ADLS, Blob Storage, Azure Functions, App Services, Webapps, PostgreSQL, IoT Hub, Azure Databricks.
Operating Systems	: Windows, Linux.
Networking	: TCP/IP, SSL, HTTP/HTTPS, REST, MQTT/MQTTS.
Programming Languages	: Java, Python, React JS, Node JS, R, C, C++.
Frameworks used	: Spring boot, Hibernate, Maven, Express, Junit, Mockito, Bootstrap.
Databases	: PostgreSQL, MySQL, Cosmos DB, Mongo DB.
IDEs and technologies	: Eclipse, IntelliJ, Mosquitto MQTT, Spring Tool Suite, PGAdmin 4, Visual Studio, R studio, Jupyter, Spyder, OpenCV, YOLO, TensorFlow, Keras.
Statistical Methods	: Missing values and outliers, Univariate Analysis, Bi-Variate Analysis, Sampling, Bootstrap, Cross Validation, Hypothesis Testing
Predictive Analysis	: Regression, Machine Learning, Data Engineering or Feature Engineering - PCA, Dimensionality Reduction
Classification	: Decision Trees, SVM, Logistic Regression, Random Forest
Unsupervised Learning	: K-Means Clustering, Hierarchical Clustering

PROFESSIONAL EXPERIENCE

IBS Software Private Limited **Jan 2023 - Current**

Role: Senior Product Engineer

Responsibilities:

- Working as a **Fullstack** developer with responsibilities in Frontend (AngularJS), Backend (Spring boot Java) and managing **databases** (PostgreSQL and Oracle DB)
- Creating repository and version control using **Bitbucket**
- Automated building and deployment of applications using **Jenkins** and **Spinnaker**
- Integrated **Apache Kafka** and created producer-consumer services in Java microservices.
- Integrating **Azure AD** authorization for SSO between applications and storing and retrieval of files from **Azure Blob** storage

Cognizant **Oct 2020 – Jan 2023**

Role: Cloud IoT developer

Responsibilities:

- Worked as Java developer, responsible for developing **REST** API using **Spring boot**, hibernate and deploying the application in **AKS** (Azure Kubernetes services) and Managing database, creating functions and stored procedures in **Azure PostgreSQL**.
- Managed IoT device using **Azure IoT hub** and **Azure functions** and Integrating **Azure AD** for authorization
- Storing and retrieval of files from **Azure Blob** storage and Monitoring and debugging application using **Grafana**.
- Connecting and controlling IoT devices from **cloud MQTT** pub/sub message using eclipse-paho and Spring boot.

Education And Internships

- Masters of Data Science (Global) from Daekin University **(Starting July 2024)**
- Post Graduate Program in AIML at the Texas McCombs School of Business. **(June 2023 - Present)**
- Bachelor of Engineering, ECE from St. Joseph's college of Engineering. **(July 2016 – Sept2020)**
- Intern at Cognizant **(Dec 2019 – Apr 2020)**
- Intern at RedInk **(May 2020 – Aug 2020)**

Certifications

- Microsoft Azure AZ-900
- Microsoft Azure DP-900
- Fundamentals of Deep Learning for Computer Vision, by Nvidia's Deep learning institute
- Completed course on Machine and Deep learning from Green Technologies

Projects

- **Feature Engineering & Model Tuning:** Employed supervised learning, ensemble modeling, and unsupervised learning techniques to build and train a prediction model for a semiconductor manufacturing company. **Tools used:** Python, PCA, Grid Search.
- **Unsupervised Learning Project:** Segmented cars into various categories by fuel consumption and other attributes, and classified a given silhouette as one of three types of vehicles using a set of features extracted from the silhouette. **Tools used:** Python, Clustering, Support Vector Machines, Principal Component Analysis.
- **Ensemble Techniques Project :** Built a machine learning workflow for a telecommunication company facing a customer churn issue. The workflow runs autonomously with a CSV file and returns the best-performing model to predict customer churn. **Tools used:** Python, EDA, Logistic Regression, Decision Trees, Random Forest, XGBoost, AdaBoost.
- **Supervised Learning Project:** Used popular classification techniques to predict patient conditions and potential customer conversions after extensive EDA and treatment of missing values and imbalanced data. **Tools used:** Python, Logistic Regression, Naive Bayes, KNN, SVM, Linear Regression.
- **Applied Statistics Project:** Analysed past tournament information for investment decisions and the status of various startups that participated in the Startup Battlefield. **Tools used:** Python, EDA, Data Visualization, Statistical Inference, Hypothesis Testing.
- **License plate detector:** Fetched licence plate details from the car's number plate. **Tools used:** Python, OpenCV, tesseractOCR

Achievements, Recognitions and Professional Training

- Recognized as one of the top 20 papers on Artificial intelligence by Nokia.
- Completed Mini Projects for Autonomous car prototype using Raspberry PI, tracking system using GPS and GPRS, Poke yoke automatic dashboard manufacturing for Hyundai
- Computer vision through OpenCV, Machine learning and Deep learning
- Completed Artificial Intelligence workshop in SSN college of engineering.