

Navirash Tharmaseelan

Personal details



Navirash Tharmaseelan



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French



linkedin.com/in/navirash-tharmaseelan

Languages

English (TOEIC 855)



Tamil



French



Certificates

Microsoft Certified : Azure Data Engineer Associate
Mar 2023

Microsoft Certified : Azure Data Scientist Associate
Mar 2023

Microsoft Certified : Azure Data Fundamentals
Mar 2023

AWS Cloud Quest : Cloud Practitioner
Mar 2023

Microsoft Certified : Azure Fundamentals
May 2022

Hobbies

■ Soccer, Japanese culture, new technologies, cars, travel, discover new culture

Soft-skills

■ Communication, initiative, organizational skills

Extracurricular activities

Language training in New York (English)
Aug 2022 - Sep 2022

Kaplan International, New York

One month of intensive English to improve my English skills.

Profile

Soon to be graduated as a generalist engineer in computer science and digital technology, specializing in data science and data engineering. I am currently seeking an opportunity abroad as a data engineer, MLOPS engineer, DevOps engineer, or Cloud engineer starting from September 2023. I am eager to join your teams to face exciting challenges and enhance my skills.

Education

Generalist Engineer in Computer Science and Digital Technology

Sep 2019 - Aug 2023

EFREI PARIS, Villejuif

Subjects taught : Big Data Framework, Scala, Spark, Deep Learning, Machine Learning, MLOPS, VueJS, NodeJS, ReactJS, Python, Java, Docker, Jenkins, cloud Azure, Statistiques, Linux, SQL, No-SQL, Data management

Preparation for national competitive entrance exams to leading French « grandes écoles » , specializing in physics, maths and engineering science.

Sep 2018 - Aug 2019

Lycée Marcelin Berthelot, Saint-Maur

Employment

Data scientist / Data engineer

Sep 2022 - Aug 2023

Société Générale, Val de Fontenay

- Case study on large language models (LLMs) in the banking sector.
- Integration of the Vicuna model, a GPT-4-based model trained with LLaMA, into the Société Générale IT system on AWS using Docker.
- Conversational chatbot , email analysis : clustering (BERTopic , DBSCAN , AutoCluster , KMeans , Agglomerative Clustering, Spectral Clustering).
- Implementation of a Spring Boot Java batch to delete documents older than 3 months in a MongoDB database.
- Development of an API (Flask) for a project on semantic analysis and classification of email exchanges.
- Development of an interface (ReactJS, Java Spring Boot).
- Creation of a Github app for the project on semantic analysis and classification of email exchanges , enabling automatic token generation and cloning of the project on EC2 instances (AWS cloud).
- Setup of credentials available in the project's Vault for accessing them from EC2 instances.
- Implementation of unit, integration, and stress tests (Java, Python).
- Deployment of the project on semantic analysis and classification of email exchanges on AWS using Packer and Terraform scripts.

Machine & Deep Learning engineer intern

Nov 2021 - Apr 2022

Société Générale, Val de Fontenay

- Perform prototyping, data collection, and preparation.
- Getting familiar with Mélusine: a Python library for email classification.
- Data cleaning (lemmatization, stop word removal, etc.).
- Training and deployment of artificial intelligence models (CNN, RNN, SVM, and Random Forest) in Python for message classification between a client and an advisor (creating 20 Random Forest models).
- Developing new strategies to improve artificial intelligence models (increasing F1-score from 0.89 to 0.99).
- Summarizing the different work done (data visualization with Python).
- Integration of models into an application process.

Academic projects

SafeChild

Sep 2022 - Jan 2023

EFREI Paris

- Service for detecting harassment on social networks.
- Role: Data Engineer & Project Manager
- Tools used: Python (Flask, Scikit-learn), ReactJS, Tensorflow, Docker, Grafana, Jenkins, JIRA, GitHub.
- Skills: Autonomy, team management, technical knowledge.

Finance Use Case

EFREI Paris

- Build a ML project for real estate credit risk classification.
- Role: Data Scientist
- Tools used: VS code, JIRA, Github, Airflow, MLFlow, Docker.
- Skills: Sphinx (documentation), cookie cutter, Airflow, MLFlow, ML algorithms, Docker, Shap, Github actions.