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# ASHWIN RAJAKANNAN

## AI/ML & DATA DEVELOPER

*"Software Engineer with background in Data Engineering, NLP, Artificial Intelligence (AI), Machine Learning and a broad overview of Data Life Cycle Management."*

## Education

### 2015 – 2020

SRM Institute of Science and Technology

- B. Tech-Electronics and Communication Engineering

### 2020 – 2022

College of Engineering, Guindy, Anna University

- M.E -Software Engineering

## Technical Skills

### PROGRAMMING

- Python
- C++
- SQL
- R Programming

### FRAMEWORKS & LIBRARIES

- Hugging Face Transformers
- TensorFlow
- Scikit-learn & PyTorch
- Flask
- Pandas & NumPy
- OpenCV

### TOOLS & PLATFORM

- Docker
- Git & GitHub
- Azure
- Jupyter Notebooks
- PyCharm
- Linux & Windows OS
- Microsoft Office Suite

## WORK EXPERIENCE

### Assisto Technologies private Limited

Junior ML Developer 04/2023 - 06/2023

- Worked on NLP models using Transformers, MT5, T5, and Byt5.
- Optimized data pipelines with Jina AI and Haystack.
- Improved model performance and integrated APIs.

### Nirvoday Pvt.Ltd (Exotic Learning)

Business Development Associate 12/2022 - 01/2023

- Developing strategies to expand the company's reach in the education sector.
- Building and maintaining relationships with educational institutions and other business stakeholders.

### SATURAM: Advanced Data Engineering for Cloud & ML Ecosystem

Trainee Data Engineer 01/2022 - 07/2022

- Built RESTful APIs using Flask for data extraction and manipulation.
- Utilized Python, SQL, and Docker for data engineering tasks.
- Performed web scraping to collect and analyze data efficiently.

## PROJECT EXPERIENCE

### Identification of Circulating Tumor DNA (ctDNA) Using Machine Learning

- Used CNNs for ctDNA detection and SVM for DNA classification.
- Applied spectrogram imaging, digital mapping (Keras), Canny edge detection, and scikit-learn for analysis.

## RELEVANT COURSEWORK

- Python ✅
- Machine Learning ✅
- Azure Fundamentals ✅
- Data Structures and Algorithms ✅
- Applied Data Science ✅

## LANGUAGES

- English (Fluent)
- Tamil (Native)