Responsibilities of an AI Engineer:

- Develop, test, and deploy AI models.

- Convert machine learning models into APIs so that other applications can use it.

- Build AI models from scratch and help product managers and stakeholders understand results.

- Build data ingestion and data transformation infrastructure.

- Automate infrastructure used by the data science team.

- Carry out statistical analysis and tune the results to derive better insights.

- Set up and manage AI development and production infrastructure.

- Coordinate work with data analyst and business analyst teams.

Skills required to become an AI Engineer (Machine Learning Engineer)

1. **Programming skills**

Python, R, Java, C++ 🡪 build and implement models

1. **Linear Algebra, Probability and Statistics**

🡪 to understand different AI models such as Hidden Markov Models, Naïve Bayes, Gaussian Mixture Models

1. **Knowledge on Spark and Big Data technologies**

Spark, Hadoop, Cassandra 🡪 to understand and process a lot of data

1. **Algorithms and frameworks**

Knowing the theory behind machine learning algorithms (Linear Regression, KNN, Naïve Bayes, SVM) will help you implement models with ease. Also, to build AI models with unstructured data, you need to understand Deep Learning algorithms (CNN, RNN, GAN) and implement it using a framework (PyTorch, theano, TensorFlow).

1. **Communication and problem-solving skills**