



# KEERTHANA MADHAVAN

Aspiring ML Engineer/Data Scientist | US Visa Holder

With a robust foundation in technical concepts and effective communication skills, I have consistently delivered projects punctually. Eager to advance my career, I'm pursuing roles in Machine Learning Engineering or Data Science. With expertise in deep learning and a US visa, I offer versatility and a steadfast commitment to excel in the realm of data science.



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## SKILLS

ML, DL, Info Retrieval

Digital Image Processing, Computer Vision

Data Science, Data Analytics & Business Analytics

Sequential and Spatial data mining

Analytics: Social media, HR, Financial, Healthcare, Risk and Fraud

Big Data Frameworks

Network Security and Cryptography

## LANGUAGES

English, Hindi, Tamil  
*Native or Bilingual Proficiency*

C/C++, Python  
*Full Professional Proficiency*

R, Java, PySpark, Hadoop, Cassandra, NEO4j, MongoDB, SQL, SPSS, Gephi  
*Professional Working Proficiency*

## EDUCATION

### M.Tech Integrated 5 years(Computer Science Engineering with specialization in Business Analytics)

VIT CHENNAI

07/2019 - 07/2024

CHENNAI, INDIA

### SCHOOLING(CBSE)

BHAVAN'S RAJAJI VIDYASHRAM

2004 - 2019

## CERTIFICATES

Coursera University of Washington Machine Learning Foundation: A case study approach

Coursera Deep Learning Specialization(All 5)

Coursera Computer Vision Basics

Coursera Text Retrieval and Search Engines

Coursera Graph Analytics for Big Data

NPTEL Programming in Java

## PROJECTS

Content based and collaborative based movie and music recommenders(ML Python)

Animal detection and prediction in Digital Image Processing(Python)

Digital signature implementation in Java(Cryptography and Network Security)

Codalab TBX11K Tuberculosis Detection and Classification(Deep learning)

Movielens Item-based Collaborative Filtering(Big data frameworks PySpark)

IMDB Sentiment analysis(Information retrieval and organization Python)

Facial detection and recognition(Computer vision Python)

Android currency detection app with voice note using Java

Sentiment Analysis from Twitter data using PySpark and PyMongo

ISIS social network analysis on Twitter(Social media metrics Python)

Loan Prediction Analytics, Transaction Fraud Detection, Mortgage automation

Inventory Optimization(Python) COVID-19 Dashboard(Tableau)

Chest X-Ray Abnormality Detection and Classification Web App

Vital Sign Monitoring System with Predictive Analytics (01/2024 - Present)

▣ Department of Science and Technology, India project at VIT Chennai