

# MOHAMEDSIPLI M

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Machine Learning Engineer — Expertise in AI, Deep Learning, and Scalable Systems

## EDUCATION

### National Institute of Technology Tiruchirappalli

2015 – 2017

Master of Science in Computer Science

Tiruchirappalli, India

- Thesis: *Sentiment Analysis Using Big Data* (Guide: Prof. Nickolas)
- Achieved 89% F1-score in sentiment classification of 1M+ Amazon reviews using PySpark and SVM.

### Kamalam College of Arts and Science, Udumalpet

2012 – 2015

Bachelor of Science in Computer Science

Udumalpet, India

- Awarded *Swami Vivekananda's Youth Achiever Award* (2015).

## EXPERIENCE

### Artificial Intelligence Research Assistant

Feb 2023 – Present

*International College of Digital Innovation – Chiang Mai University*

Thailand

- Created machine learning models for disaster prediction with TensorFlow, achieving 95% accuracy on flood datasets.
- Implemented a real-time monitoring system leveraging distributed computing, cutting response time by 30%.
- Published a preprint on flood prevention strategies (**IACIDS'23**): [Link].

### Co-Founder

Jan 2019 – Nov 2021

*Jitrucks*

Jeddah, Saudi Arabia

- Launched a mobility tech startup; prototyped an app using React Native and Firebase.
- Engineered scalable architecture with AWS microservices, lowering server expenses by 35%.

### Machine Learning Crash Course Facilitator

June 2018 – Dec 2018

*Google India*

India

- Instructed 500+ engineers on TensorFlow and GCP, elevating post-assessment scores by 40%.
- Established automated CI/CD pipelines, decreasing cloud deployment errors by 25%.

### Software Engineer Intern

Dec 2016 – May 2017

*Monitpro Pvt Ltd.*

Tiruchirappalli, India

- Crafted an Android app featuring real-time JSON data visualization, enhancing user retention by 25%.

## PROJECTS

### Stock Market Prediction in PySpark | *Big Data Analytics*

Spring 2016

- Boosted prediction accuracy by 12% using LSTM networks; increased trader profits by \$20K/month.

### Convolutional Neural Network (CNN) on GPU | *GPGPU Programming*

Autumn 2016

- Optimized CNN for GPU acceleration using CUDA, achieving 95% accuracy and 3x speedup.

### Quiz Portal on AWS | *Cloud Computing*

Autumn 2016

- Built scalable platform handling 10K+ concurrent users; reduced latency by 50% with auto-scaling.

## TECHNICAL SKILLS

**Programming:** Python, C/C++, SQL

**ML Frameworks:** TensorFlow, PyTorch, Keras, Scikit-learn, OpenCV

**Cloud Platforms:** AWS (EC2, S3, RDS), GCP

**Tools:** Git, Docker, Spark, OpenMP, CUDA

**Specialized Skills:** Deep Learning, Computer Vision, Distributed Systems, Real-time Data Processing

## ACHIEVEMENTS

- Recipient of the **Facebook's Secure and Private AI Challenge Scholarship** (2019)
- Recognized in **Google AI Study Jam Newsletter** for teaching ML to 100+ students (2018)
- Conducted user research that boosted **Firebase** engagement by 20% (2019)