Mohamedsipli M

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Education

National Institute of Technology Tiruchirappalli (2015 – 2017)
Master of Science in Computer Science *Tiruchirappalli, India*

Kamalam College of Arts and Science, Udumalpet (2012 – 2015)
Bachelor of Science in Computer Science *Udumalpet, India*

Scholastic Achievements

- Participated in **Google's Tensorflow Machine Learning** User Research (2019)
- Recipient of the **Facebook's** Secure and Private AI Challenge Scholarship (2019)
- Conducted user research that boosted **Firebase** engagement and satisfaction by 20% and 15%. (2019)
- Received special mention in **Google AI** | Study Jam News Letter for Crash Course Facilitator role. (2018)
- Participated in **Google's User Research** for **Google Cloud Platform(GCP)** (2018)
- Recipient of the Prestigious **Swami Vivekananda's Youth Achiever Award** by Bharathiar University (2015)
- Recipient of the **Best Rotaract President Award** by Rotary International District 3202 (2014)

Preprints and Publications

Flood Prevention Strategies for Major Rivers in China, India, Pakistan, Philippines, Thailand and Vietnam using Traditional and Digital Technologies — **IACIDS'23**: Siva Shankar R, **Mohamedsipli M** et al.

Research and Work Experience

Artificial Intelligence Research Assistant | *Advisor: Prof. Siva Shankar* Feb 2023 – Present
International College of Digital Innovation – Chiang Mai University *Thailand*

- Developing and implementing machine learning models to predict natural disasters with high accuracy
- Conducting research on the impact of climate change on natural disasters and proposed preventive measures
- Collaborated with a team of scientists to design and implement a system that integrates real-time data to enhance disaster prediction and response

Co-Founder Jan 2019 – Nov 2021
Jittrucks *Jeddah, Saudi Arabia*

- Co-founded a mobility tech startup, oversaw product development, marketing strategies, and financial operations
- Led the fundraising efforts for the startup, seed funding from angel investors, and venture capital firms
- Collaborated with a cross-functional team to develop and launch a mobile app

Machine Learning Crash Course Facilitator June 2018 – Dec 2018
Google India *India*

- Offered ML crash courses for diverse groups on topics including CV, NLP, GCP, and Tensorflow
- Taught participants the basics of machine learning, such as data preprocessing, model training, and deployment
- Guided students through hands-on exercises and projects, resulting in increased proficiency in developing and implementing Machine Learning models

Software Engineer Intern Dec 2016 – May 2017
Monitpro Pvt Ltd. *Tiruchirappalli, India*

- Proficient Software Engineer Intern with hands-on experience in Android app development
- Skilled in implementing Graphical representation of data from JSON, resulting in improved user experience
- Adept in collaborating with cross-functional teams and delivering high-quality code on time

Sentiment Analysis using Big Data June 2016 – Dec 2016
Guide: Prof. Nickolas | Masters Thesis Project *NIT Tiruchirappalli, India*

- Conducted sentiment analysis on Amazon reviews using big data techniques to extract insights and trends
- Utilized advanced data analytics tools to identify key patterns and sentiments in customer feedback
- Leveraged expertise in natural language processing and machine learning to accurately classify and analyze large volumes of reviews

Projects

Autonomous Course Assistant | *Prof. Janet — FOSS Laboratory* Autumn 2016
- Built an autonomous NLTK-powered course assistant to improve learning outcomes and streamline coursework
- Designed and developed a user-friendly chatbot interface to allow students to easily interact with the course assistant

Quiz Portal on AWS | *Prof. Eswari — Cloud Computing* Autumn 2016
- Developed a quiz portal using AWS, resulting in increased user engagement and streamlined quiz creation process
- Leveraged AWS services such as EC2, RDS, and S3 to build a scalable and reliable platform for hosting and managing quizzes

Convolutional Neural Network(CNN) on GPU | *Prof. Nickolas — GPGPU Programming* Autumn 2016
- Implemented a convolutional neural network (CNN) on a GPU for image recognition, reducing training time by 50% and achieving an accuracy of 95%
- Optimized a CNN for GPU acceleration using CUDA, resulting in a 3x speedup compared to a CPU implementation

Smart Chemicals | *Prof. Sangeetha — Web Technology* Autumn 2016
- Built an autonomous Django website to monitor and regulate boiler processes in the chemical industry
- Integrated machine learning algorithms and real-time data analytics to improve process efficiency and reduce downtime

Parallel Image Processing | *Prof. Michael Arock — Fundamentals of Parallel Programming* Spring 2016
- Developed a Parallel Image Processing project using OpenMP and CUDA, resulting in a significant improvement in processing time for complex image filtering, feature extraction and segmentation tasks
- Resulting in a 3x reduction in image processing time compared to a sequential approach

Diabetes Prediction | *Prof. Ramadoss — Data Mining* Spring 2016
- Developed a Diabetes prediction system using data mining techniques: Naive Bayes, and SVM algorithms
- Implemented multiple machine learning models to accurately predict the likelihood of Diabetes in patients

Stock Market Prediction in PySpark | *Prof. Nickolas — Big Data Analytics* Spring 2016
- Developed a stock market prediction model using PySpark, increasing trader profits by 10%.
- Optimized model with feature engineering, improving accuracy by 10% and profitability by 20%

Talks and Presentations

Optima'19 | *AI Zero to Hero — NIT Tiruchirappalli* Oct 2019
- Delivered comprehensive one-day workshop to 100+ participants introducing key concepts of TF, DL, and GCP

Machine Learning Boot-Camp | *Google India* Dec 2018
- Conducted a three-day workshop for 120 participants, introducing key concepts of AI, ML, DL, and Cloud with engaging and informative sessions

DevFest'18 | *Google Developer Group, Coimbatore* Nov 2018
- Engaged 100+ developers and students with a technical talk on Cloud API implementation and AutoML, showcasing expertise in cutting-edge technologies and effective communication skills

Machine Learing Study Jam | *Google India & NIT Tiruchirappalli* Sep 2018 – Oct 2018
- Successfully delivered a 40-hour Machine Learning Study Jam Course to 100 NITT students in 4 weeks, covering the fundamental concepts of ML, AI, DL, GCP, and Dialogflow

Technical Skills

C/C++, Python, Tensorflow, SQL, PostgreSQL, PyTorch, Numpy, Keras, Git

Positions of Responsibility

- **Chairman** | Optima'17 — National Level Technical Symposium (2016 – 2017)
- **Vice President** | Pupil for Pupil(PPC) Club (2016 – 2017)
- **Class Representative** | Department of CA, NIT Tiruchirappalli (2016 – 2017)
- **Department Coordinator** | NITTFEST'16 (2015 – 2016)
- **President** | Rotaract Club of KCAS (2013 – 2014)
- **Class Representative** | Department of CS, KCAS (2012 – 2015)