Nitish Ramakrishnan

Authorized to work in the US

write2nitish0210@gmail.com | (720)245-0268 | LinkedIn | nitishramakrishnan.com | GitHub | Portfolio

KEY SKILLS

Machine Learning, Natural Language Processing, Data Mining and Analytics, Big Data Analytics, Data Science, Neuro-Fuzzy and Genetic Programming

TECHNICAL SKILLS

Languages: Python, C/ C++, R, JavaScript **Web Technologies**: HTML, CSS, PHP

Databases: MySQL

Programming Libraries: OpenCV, Scikit-learn, Pandas, LightAutoML, TensorFlow, PyTorch, Keras, XGBoost

Algorithms: kNN, LSTM, CNN, RNN, Tree and Gradient Based, SVM

Technologies: Docker, AWS, Git, Tableau, A/B Testing, SQL

Other Skills and Tools: Adobe After Effects, Adobe Premiere Pro, Final Cut Pro, MS Office tools

EDUCATION

Masters in Computer Science (May 2024)
 University of Colorado at Boulder, USA

Bachelor of Technology in Computer Science and Engineering (May 2022)
 CGPA: 3.72/4

SRM Institute of Science and Technology, Chennai, India

PROFESSIONAL EXPERIENCE

Test Lead, Capstone Project – National Institute of Standards and Technology (NIST) University of Colorado Boulder, Colorado, USA Au

Aug 2023 – May 2024

GPA: 3.97/4

- Undertook comprehensive manual and automated testing responsibilities for my capstone project, identifying
 critical usability and functional defects that led to significant improvements in the final product's user experience
 and performance.
- Successfully executed testing strategies and methodologies for front-end components, successfully ensuring product quality and reliability.

Intern - National Renewable Energy Laboratory, Colorado, USA

July-Dec 2023

- Worked in rewriting the frontend code to Typescript as part of the NREL OpenPATH team.
- Part of the rewrite team where we successfully rewrote most of it in 8 months.

Scalable Auction System – Google Cloud Platform, Kubernetes, Docker, React, Redis, K6 University of Colorado Boulder, Colorado, USA July-Dec 2023

- Developed a web application based on microservices architecture enabling users to create auctions and bid on items. Implemented user dashboards to show current and historic auction data. Deployed application on GCP.
- Scripted k6 load tests to evaluate system performance during high load. Configured auto scalers based on metrics.

Customer Attrition Forecasting (Banking Domain) – Implemented with ML model and Deployment with AWS University of Colorado Boulder, Colorado, USA Jan-May 2023

- Successfully implemented ML model Long Short-Term Memory.
- We deployed the model successfully by first creating a flask model file; set-up an ECS cluster, configured required tasks, and achieved automated deployment using AWS Code-Pipeline.
- Effectively tested the working with Docker locally and checked the connections with Postman.

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SemEval-2022 Task 6 Part B: Legal Named Entities Extraction (L-NER) University of Colorado Boulder, Colorado, USA

Aug-Dec 2022

- Successfully extracted Legal Entities from text with 95% accuracy.
- We used the "Bidirectional Encoder Representations from Transformers" (BERT), DistilBERT, and XLNET which were effectively implemented.

Prediction of PM_{2.5} level at an AQMD station: using nearby station's data University of Colorado Boulder, Colorado, USA

Aug-Dec 2022

- Successfully designed three models 1. CNN, 2. LSTM, 3. XGBoost to predict Particulate Matter (PM2.5) for stations that (at the time of designing the models) lacked the ability to predict PM levels.
- Used data from AQMD stations in California and used 168 hours' worth of data to predict the next 6 hours and exceeded accuracy over contemporary models.

Supply Chain Logistics Management: An Integration of Automated Machine Learning SRM Institute, Chennai, India

Jan-Apr 2022

- Integrated Automated Machine Learning in Supply Chain to predict backorders using LightAutoML to integrate
 with the existing Supply Chain. Successfully achieved a score of 97%.
- Reduced the active monitoring time of engineers for supply chain management.
- Demonstrated inadequacies in industry supply chain dataset.

COVID cases forecasting, SRM Institute, Chennai, India

Jul-Dec 2021

 Analyzed COVID case trends and developed a trend forecasting model using Long Short-Term Memory (LSTM), a variety of recurrent neural network (RNN).

Intern, Verzeo, Chennai, India

April-May 2021

- Trained a model to identify signs of aging using Tensorflow and OpenCV with a loss of 15%.
- Designed a heart disease prediction model using feature extraction with sk-learn and kNN.

Attendance Tracking system using GPS, SRM Institute, Chennai, India

Jan-May 2020

- Developed a mobile application for attendance tracking using geolocation.
- Led a team of developers in full frontend development and partial backend development.
- Used a combination of Adobe XD and Android Studio to develop the GPS-based attendance system.

VI Microsystems, Chennai, India

April-May 2016

Interned in an R & D facility that builds microprocessor trainers and power systems

MS CS COURSES TAKEN

Machine Learning

Matural Language Processing

Datacenterscale Computing

Big Data Analytics

Statistical Methods and Applications

Computer Vision

UG CS COURSES TAKEN

Object Oriented Design and Programming

Neuro Fuzzy and Genetic Programming

Programming for Problem solving

Operating Systems

Advance

Data Mir

Artificial

Advanced Programming Practice Data Mining and Analytics Artificial Intelligence

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PUBLICATIONS

Unmesh, S.N., Septankulam Ramakrishnan, N.V., Jeevesh, P., Jayanthi, S., Prasanna Devi, S. Supply Chain Logistics Management: An Integration of Automated Machine Learning. International Journal of Mechanical Engineering; Vol 7(4), 2022. ISSN: 0974-5823. Link to article

CERTIFICATIONS

Supervised Machine Learning:

Regression and Classification, Coursera

Computer Vision, Kaggle

Data Cleaning, Kaggle

Introduction to Machine Learning, Kaggle

Fundamentals of Deep Learning, Nvidia

Digital Image Processing, Udemy

Visualization of Data using Python and MATLAB, Udemy

Data Visualization, Kaggle Complete Responsive Development, Udemy Intermediate Machine Learning, Kaggle Python Programming for Beginners, Udemy

Al and High-Performance Computing, Intel Responsible Web Design Certification, FreeCodeCamp

Pandas, Kaggle

WORKSHOPS AND CONFERENCES

WORKSHOT & ARE COM ENERGES	
 Supervised Machine Learning: Regression and Classification DeepLearning.Al (Stanford) - Coursera 	Jan 2022
Ethical Hacking workshop	Jan 2020
Indian Institute of Technology, Hyderabad - Azure Skynet solutions	
5G - Beyond the hype	Jul 2019
NOKIA	
Artificial Intelligence and Machine learning,	Jul 2019
Technobyte Workshop Indian Institute of Technology, Madras	
FULL STACK Workshop	Sep 2018
Ubertech	
Level up – Entrepreneurship	Aug 2018
Ubertech	
Science and Engineering, A Journey	Jan 2017
Indian Institute of Technology-FSCT Awareness Workshop	
Design Thinking Workshop	Oct 2016
India Today group	
Summer School on Astronomy	May 2014
City School Science Congress	Feb 2014

EXTRACURRICULAR ACTIVITIES

Model United Nations – University of Colorado Boulder	2023-2024
Volunteer, "Be My Eyes"	2021-Present
Volunteer, Niravi - food donation and service for the needy	2020-Present
Model United Nations – St. John's Public School	2015-2018
Fundraising Committee Member, National Association for the Blind	2012-2013
Volunteer, Home for Orphan and Education (HOPE)	2006-2007

Professional Archery, participated and won state level competitions in India

Table Tennis, participated and won state level competitions in India

Keyboard, completed theory at Trinity College of London

Violin, participated in Indian classical concerts

Photography and videography, co-founded and led a club