KARTHIKEYAN JEGANATHAN

Graduate Student in Data Science & AI

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ABOUT ME

A result oriented, technical evangelist and a machine learning enthusiast, currently pursuing my master's in the field of Data Science and Artificial Intelligence. I am self motivated to learn new technologies who is passionate about teaching and sports. Jack of all trades !

WORK EXPERIENCE

Brainmill AB
Software Developer-Part time

📅 November 2020 – January 2021   📍 Gothenburg, Sweden

- Scaled up in basics of the functional programming, Erlang
- Responsible for turning ideas and concepts into working software

Infosys Limited
Senior Systems Engineer

📅 December 2016 – June 2020   📍 Mysore, India

- Underwent training in Performance testing
- Trained around 2100 people on technologies like Python, Java, php, shell scripting and MySQL
- Created Python and Unix learning materials for Infosys internal learning platform (Lex)
- Developed end to end web based application on Library Management System using php, MySQL and JavaScript
- Mentored 450 Fresh recruits on 10 different projects which provides IT solutions and helps in automating various real time scenarios. Two such projects are
  - A Session Allocator tool developed for coordinating the training activities in an institution for different type of users using html, JavaScript, php, and MySQL
  - An Evaluation tool designed to evaluate html and JavaScript code using Java and Selenium

Neyveli Lignite Corporation
Inplant Trainee

📅 2015   📍 Neyveli, India

- Acquainted with various processes involved in electricity production in a thermal power plant

Fluid Control Research Institute
Inplant Trainee

📅 2015   📍 Palakkad, India

- Acquainted with Calibration and testing of various instruments and flowmeters

AREA OF INTEREST

Optimization   Machine Learning   Natural Language Processing   IoT   Data Analysis   Databases   Statistics

TECHNICAL SKILLS

Python   Java   Unix   MySQL   neo4j   PostgreSQL   mongoDB   HTML   CSS   JavaScript

TECH CERTIFICATIONS

Mathematics for Machine Learning
Coursera-Imperial College London

📅 May 2020

Intro to Data Science in Python
Coursera-Michigan University

📅 May 2020

Intro to Programming using Python
Microsoft

📅 May 2020

MongoDB Basics
MongoDB University

📅 April 2020

ACHIEVEMENTS

Attained the Bronze Standard
The International Award for Young People

📅 March 2010

Done activities in Service, Skills, Physical Recreation and Adventurous journey

Completed Praveen Uttarardh
Dakshin Bharath Hindi Prachar Sabha

📅 August 2009

Equivalent to B.A Hindi

EDUCATION

Chalmers University of Technology

M.Sc Data Science & AI

📅 September 2020 – Present   📍 Gothenburg, Sweden

- Designed, optimized and analysed a non-linear programming model for the natural gas transmission and a linear model for biodiesel production
- Designed movie recommendation system, diagnostic system, translation system, digital assistant chatbot and game playing system as part of an AI course
- Designed and constructed a Database from scratch which handles data of university students and courses
- Analysed and implemented 4 paradigms of parallel computation such as multi-threaded programming, message passing, map-reduce, and Spark
- Basic experience in working with graph databases such as graphDB and neo4j using SPARQL and CYPHER respectively
- Analysed various machine learning algorithms such as Regression, Classification, Clustering and neural networks mathematically

Amrita Vishwa Vidyapeetham University

B.Tech Electronics & Instrumentation Engineering

📅 April 2012 – April 2016   📍 Coimbatore, India

- Final year undergraduate project on "Variable Speed Control of BLDC Motor"
    - A hybrid cycle with pedaling and electrical mode is developed using BLDC motor and Hall sensors which helps in sustainability
- Mini project on "Smart Home Automation"
    - A miniature home model is created with Automatic light control from mobile has been implemented using Arduino board
- Assisted in a project on "Forecasting Rainfall using Soft Computing Techniques"
    - An empirical evaluation on effectiveness of soft computing techniques in forecasting annual and seasonal rainfalls on a nationwide and regional level

COURSES TAKEN

Nonlinear Optimization   Database
Linear Optimization   Stochastic process
Design of AI system   Algorithms for ML
Techniques for large scale data

HOBBIES

Philately   Chess   Table Tennis
Reading Books   Hiking   Cooking

LANGUAGES

Language	
English	●●●●●
Tamil	●●●●●
Hindi	●●●○○
Telugu	●●○○○
Swedish	●○○○○

OTHER ACTIVITIES

Tutoring
Part time tutor in Programming and Mathematics at Superprof

Contributor
Delivered workshops in Machine learning as part of Google Developer Group, West Sweden

Student Representative
Helping and guiding students