KARTHIKA KAMATH

(+91) 9869175254 ⋄ kamathkarthika@gmail.com

EDUCATION

Neuromatch Academy · July 2021
Computational Neuroscience Summer School

· Completed a 3 week project on analysing how the speed-accuracy trade-off modulate mice's behaviour during a visual two-alternative forced choice (2AFC) task

Plaksha Tech Leaders Fellowship, Gurugram · August 2019 - July 2020
in partnership with Berkeley Engineering and Purdue University · *CGPA: 3.4/4*

· One year residential program with 34 credits and a capstone project
· Relevant Courses: Data Science, AI at Scale, Design Thinking, Cybersecurity, Leadership, Network Analysis

Veermata Jijabai Technological Institute, Mumbai · August 2014 - April 2018
Bachelor of Technology, Electronics · *CGPA: 8.14/10*

· Relevant Coursework: Neural Network and Fuzzy Logic, Signal Processing, Filter Theory, Control Systems
· Final year thesis on the classification of EEG Signals to study the effect of different music genre on emotional stress relief under Dr. Daruwala which resulted in a **research paper presented** in the International Conference on Recent Trends in Computational Engineering and Technologies (ICTRCET -18)   Grade: A

WORK EXPERIENCE

Fractal Analytics, Bengaluru · Oct 2020 - Present
Decision Scientist

· Client: Technology Giant, Mountain View, CA
· Role: Data research (Big query), Data driven decision making, End to end Dashboarding including developing backend data architecture from various data sources, Cluster Analysis, Predictive Modelling

Eugenie.ai, Mumbai · Feb 2020 - April 2020
Data Science Intern

· Worked on building an MVP for data driven control of an HVAC system for my capstone project
· Contributed to the COVID19 project by building epidemiology models to estimate the efficacy of lockdown

UBS Business Solutions, Credit Risk IT Department, Mumbai · July 2018 - July 2019
Software Engineer

· Worked on firm-wide Credit Risk projects by processing Credit Risk data from various upstream sources
· Actively participated in the women in tech AI group and led the Neural Network based stretch project

SUMMER TRAINING

itie Knowledge Solutions, Bangalore · 2017
Research training in biomedical image and signal processing

Engineering the EYE summer program, L. V. Prasad Eye Institute, Hyderabad · 2017
Worked on Dry eyes syndrome quantifier project by quantifying lipid layer thickness from fundus images of the eyes using Image processing

Bhabha Atomic Research Centre, Research Reactor Maintenance Division, Mumbai · 2016
Project Trainee in Dhruva Nuclear Reactor's control system monitoring

ACADEMIC PROJECTS

Speech-to-text Summarization   Plaksha TLF, 2020

Implemented using speech-to-text libraries and sequence to sequence based abstractive text summarization model as well as textrank based extractive text summarization model.

Keystroke dynamics based bio-metric authentication   Plaksha TLF, 2019

Used keystroke dynamics as the behavioral bio-metric for two factor authentication alongside user password. Built Siamese Network based model and key press-release timings as feature vectors.

ONLINE COURSES AND CERTIFICATION

· Computational Neuroscience Coursera Course by University of Washington
· Post Graduate Certification in Foundation of Data Science by upGrad
· Data Science in Stratified Healthcare and Precision Medicine Coursera Course by The University of Edinburgh
· Sequences, Time Series and Prediction by deeplearning.ai

TECHNICAL STRENGTHS

Programming Languages: Python, SQL   **Software & Tools:** MATLAB, Git, Excel

HONOURS AND AWARDS

· Runner-up at wmn hackathon - Women only hackathon organised by HackInOut, Bangalore   2019
· Won Connected Health Theme prize at the **MIT Grand Hack**, MIT Media Labs, Boston   2018
· **UBS India Hackathon winner** and runner-up for Asia Pacific region   2018
· Received partial sponsorship to attend Hack the North, University of Waterloo, Toronto   2017
· Won the Future Leader award for my initiative of getting more teaching volunteers at U&I (NGO) 2017

VOLUNTEERING WORK

· Collaborator with Omdena-EmPowerYu AI for Social Good project - Performed preliminary data analysis for adjusted body weight prediction model   Aug - Oct 2021
· Volunteer at Enrich Lives Foundation (NGO) - Worked on Covid Widow project to verify the leads and allocate funds   May - June 2021
· **Women in Data Science** at Stanford University, **Mumbai ambassador** - Organiser of Data Science conferences annually attended by 100+ participants   2017-present
· Class lead at U&I (NGO) - Taught 15 orphanage kids English and managed the learning centre 2016-2018

HOBBIES

Dancing and Choreography

Running Marathons

Creating Computational Neuroscience content on my YouTube channel called Brainverse Talks