


 Mumbai, India

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 <https://karthikakamath.github.io>


SUMMER TRAININGS


Neuromatch Academy (07/2021 - 07/2021)
Computational Neuroscience Summer School
Participated as an interactive student and completed a 3 week project

L. V. Prasad Eye Institute (07/2017 - 07/2017)
Engineering the EYE summer program
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 (05/2016 - 07/2016)
Research Reactor Maintenance Division
Project Trainee in Dhruva Nuclear Reactor's control system monitoring

AWARDS & ACCOMPLISHMENTS

Poster Presentation
Cognitive Computational Neuroscience Conference, San Francisco, 2022
Represented my team at Fractal Cerebral to present the accepted paper on "Role of visual stimuli in final seconds of decision making"
 https://2022.ccneuro.org/view_paper.php?PaperNum=1318

Speaker
IET-VIT
Invited to give a talk on Neuroscience inspired AI
 <https://youtu.be/-6Ns4RgIFOY>

Runner-up, wmn Hackathon - 2019
All-women hackathon by Devfolio

Connected Health Theme Prize - 2018
MIT Grand Hack, MIT Media Labs, Boston

Winner - 2018
UBS India Company-wide Hackathon

Future Leader Award - 2017
U&I, NGO
For my initiative of raising funds, recruiting teaching volunteers and designing the curriculum for underprivileged kids

Mumbai ambassador - 2017 to 2022
Women in Data Science, Stanford University
Conducted ML workshops, gave tech talks & hosted female data scientist speakers annually for an audience of 100+

Karthika Kamath
Neuroscience & AI

WORK EXPERIENCE

Fractal Cerebral (11/2021 - Present)
Founding team member

- Building a new capability of AI + Neuroscience within Fractal Analytics
- Developing a framework decoding the final seconds of a consumer's decision-making
- Constructing a Navrasa based Emotional model for music generation systems

Neuromatch Academy (07/2022 - 07/2022)
Teaching Assistant
I was selected as a Teaching Assistant for computational neuroscience summer school to a pod of 10 PhD/post-doc students

Fractal Analytics (10/2020 - 11/2021)
Decision Scientist

- Worked with 50+ PMMs to ideate and set-up 75+ email campaigns across multiple Google products such as AdWords, Skillshop, YouTube resulting in \$1b+ annual revenue
- Analyzed and developed automated data-driven pipelines and created dynamic dashboards to ensure quality checks

Eugenie.ai (02/2020 - 04/2020)
Data Science Intern

- Developed an online-learning algorithm for data driven optimal control of an HVAC system
- Contributed to the COVID19 project by building epidemiology models to estimate the efficacy of lockdown

UBS Business Solutions (07/2018 - 07/2019)
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 designed an interactive hands-on course on Neural Networks


EDUCATION

Veermata Jijabai Technological Institute (08/2014 - Present)
B.Tech , Electronics Engineering 8.14/10
Relevant Courses: Neural Network and Fuzzy Logic, Signal Processing, Filter Theory, Control Systems, Data Structures and Algorithms

Plaksha Technology Leaders Fellowship (08/2019 - 07/2020)
in partnership with Berkeley Engineering and Purdue University
Relevant Courses: Data Science, AI at Scale, Design Thinking, Cybersecurity, Leadership Bootcamp, Network Analysis, Entrepreneurial challenge lab

PROJECTS

Classification of EEG signals to study the effect of different music genre on emotional stress relief - Biomedical Lab, VJTI
Recorded EEG readings for 10 subjects using self designed protocol. Cleaned the EEG artifactual data, applied wavelet decomposition and extracted statistical features to model using SVM. Presented in ICTRCET-18 conference in aassociation with IEEE Bengaluru section.
 <http://www.gjesr.com/Issues%20PDF/ICRTCET-18/39.pdf>

Keystroke dynamics based bio-metric authentication - ML Lab, Plaksha TLF
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.
 https://github.com/KarthikaKamath/Keystroke_dynamics_PlakshaDataX1

SKILLS

Python, Tensorflow, SQL, Git, MATLAB, Excel