


 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/proceedings/0000260.pdf>

**Speaker**  
IET chapter, Vellore Institute of Technology  
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

**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+

**Future Leader Award - 2017**  
U&I, NGO  
For recruiting teaching volunteers and raising funds for underprivileged

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  
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 - DataX 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](https://github.com/KarthikaKamath/Keystroke_dynamics_PlakshaDataX1)

SKILLS

Python, Tensorflow, SQL, Git, MATLAB, Excel