DURGESH AMETA

BASIC INFORMATION

A18, IKSMHA Lab, North Campus, IIT Mandi, 175005, HP
d22117@students.iitmandi.ac.in, +91-8226948584

EDUCATION

Ph.D.   Aug 2022 - Present
IIT Mandi
GPA - 9.08/10
Areas of research - Mathematical Modelling, Cognitive Science, Cheminformatics, Indian Knowledge System

Bachelor of Technology(Honours), Computer Science and   JULY 2014 - JULY 2018
Engg.
IIT(ISM) Dhanbad
Grade: 8.44 OGPA.

Higher Secondary School Certificate   JUNE 2011 - MAY 2013
ST. Pauls's Sr. Sec. School, Chittorgarh, Raj
Marks: Overall 92.4 %

WORK EXPERIENCE

Teaching Assistant   Sep 2022 - Present
IIT Mandi

Research Assistance   Sep 2020 - Aug 2022
BRC, Kolkata and ISS, Delhi
Modelling EEG data using algebraic topology and developing classification models. This EEG data was
collected during a cognitive experiment.

Backend Developer   June 2019 - Sep 2020
Abzooba India Infotech Pvt. Ltd.
1. Contributed to News recommendation system Used SQS, Neo4j, Docker, Flask, Kubernetes
2. Designed a chatbot using Dialogflow and Firebase database.
3. Designed load testing app using Locust.

Software Engineer   November 2018 - June 2019
Delhivery
Software Engineer
1. Worked on backend of Ware House Management Service. Used PostgreSQL as the primary database,
Django, Python, PostgreSQL

Software Developer   August 2018 - November 2018
Zemoso Labs
Django, Python, Docker, Elasticsearch

TECHNICAL SKILLS

1. Languages: C, C++, Python
2. Web Design: Django, Flask,
3. Database: MySQL, Firebase database, SQLITE, PostgreSQL, Neo4j, Elasticsearch
4. Scripting Language: Python, BASH-Shell
5. Hosting and Packaging: Docker, Kubernetes
6. Cloud Services: AWS SQS, Google Dialogflow
7. Data Science: Scikit-Learn (Python), TensorFlow, PyTorch
8. Qiskit

ACHIEVEMENTS

1. Best paper award for "Statistical and Deep Convolutional Feature Fusion for Emotion Detection from Audio Signal". IEEE-ICBSII23
2. Scored 99.5 percentile in JEE (Joint Entrance Examination) 2014 among more than 1.5 million candidates. (AIR 3366)
3. TCS Research Scholarship (Prestigious scholarship awarded to only 35-40 researchers annually all over India, an industry equivalent of PMRF with added benefits.)

GRANTS AND SCHOLARSHIPS

1. AICTE IKS Grant (Bhāratīya-jñāna-sampoaa   -gaveaa   -kendram IKS Research Centers), INR 40 lakhs, Nov 2022 – Nov 2024 (Co-PI)
2. AICTE IKS Grant (BGSamvahan Karyakram -3), 100 Person Month (~17Lac), Sep 2023 – Feb 2024 (Mentor)
3. TCS Research Scholarship (Prestigious scholarship awarded to only 35-40 researchers annually all over India).

PUBLICATIONS

1. Evaluating the Effectiveness of Mantra Meditation in a 360 Virtual Reality Environment, ACM Perta 2023
2. Statistical and Deep Convolutional Feature Fusion for Emotion Detection from Audio Signal, ICBSII 2023 (IEEE)
3. Active Feedback using Riemannian Features for Motor Imagery Classification, ICBSII 2023 (IEEE)
4. Predicting Odor from Vibrational Spectra: a Data-Driven Approach (under review at Nature Scientific Reports)
5. Comparative Evaluation of EEG Feature Fusion Techniques for Emotion Classification (under review at IEEE-ICCNT 2024)