Osheen Jain

London, UK | www.osheenjain.com | +44 7342681452

Experienced cognitive neuroscience researcher with a strong focus on EEG-based BCI systems and neurotechnology. Skilled in experimental design, data collection, and analysis using Python, MATLAB, and machine learning techniques. Adept at supporting children with special educational needs, including Autism, ADHD, and multisensory impairments, through tailored interventions. Seeking a PhD position to contribute to cutting-edge neuroscience research, utilizing my technical expertise and analytical skills to advance innovative solutions and insights in the field.

WORK EXPERIENCE

EEG Research Assistant

Neurolive – ERC-Funded Project | Oct 2024 – Nov 2024

- Configured gel-based EEG systems for live neuroscience experiments in a creative context, integrating contemporary dance performances.
- Collaborated with a multidisciplinary team to ensure accurate data collection in dynamic environments.

Richard Wright Music Ltd | May 2024 – June 2024

- Conducted EEG sessions during "Brainstorms: A Great Gig in the Sky," capturing neural responses to music using Emotiv headsets.
- Ensured seamless data acquisition by guiding participants through EEG setup, troubleshooting technical challenges, and ensuring high-quality recordings.

Neurotechnology Researcher

LiquidWeb s.r.l. | Nov 2022 – Sep 2023

- Designed and implemented data pipelines to process and analyze EEG datasets collected with Biosemi ActiveTwo systems.
- Applied machine learning techniques, including SVM and CNN models, to classify neural responses from high-dimensional EEG data.
- Conducted data preprocessing using Python libraries like NumPy, Pandas, and SciPy, optimizing signal quality and ensuring robust analysis.
- Led an experimental paradigm to explore the impact of emotional stimuli on visual imagery, contributing actionable insights to neurotechnology applications.

TEACHING and WRITING EXPERIENCE

Teaching Assistant

Zen Educate | Apr 2024 – Present

- Supported students with ADHD and autism by implementing individualized strategies to foster engagement, enhance focus, and promote positive learning outcomes.
- Collaborated with therapists, teachers, and parents to tailor educational approaches, ensuring alignment with neurodiverse students' needs and goals.
- Leveraged assistive technologies and innovative methods to create inclusive, sensory-friendly learning environments.

Freelance Data Analyst and Writer

Self-Employed | Apr 2015 – Present

- Partnered with 20+ organizations to deliver data-driven insights and high-quality content, spanning technical blogs, white papers, and analytical reports.

- Produced 100+ deliverables, ensuring timely completion and alignment with client objectives across various industries.

SKILLS

- **EEG Analysis:** EEGLAB, MNE Python, BioSemi ActiveTwo, EPOC X, EmotivPRO, EmotivBCI

- **Languages**: MATLAB, Python, MySQL, Java, BSL, Makaton

- **ML Libraries**: Scikit-Learn, TensorFlow, Keras

- **Data Analysis**: Pandas, NumPy, SciPy

- **Statistics**: Jamovi, SPSS

- **Technologies**: Google Suite, Asana, Trello, Slack, GitHub, Git, BitBucket

EDUCATION

M.Sc. Computational Cognitive Neuroscience
Goldsmiths College, University of London | Sep 2023

M.A. Philosophy
University of Delhi, New Delhi | Aug 2020

Project: Concept Ontology: Fodorian Atomism vs. Embodied Grounding
Paper Presentation: What Does Robotics Offer in Our Understanding of Behavior and Cognition?

B.E. Electronics and Communication
Sagar Institute of Research and Technology, Bhopal | Aug 2018

PUBLICATIONS

Research Paper

- Mushfika Sultana, **Osheen Jain**, Sebastian Halder, Ana Matran-Fernandez, Rab Nawaz, Reinhold Scherer, Ricardo Chavarriaga, José del R. Millán, Serafeim Perdikis. "Evaluating Dry EEG Technology Out of the Lab," *2024 IEEE International Conference on Metrology for eXtended Reality, Artificial Intelligence and Neural Engineering (MetroXRAINE)*, St Albans, United Kingdom, 2024, pp. 752-757, doi: 10.1109/MetroXRAINE62247.2024.10797021.

Theses

- **Jain, O.** (2023). Investigating the Effect of Emotional Stimuli on Visual Imagery Performance in EEG-Based BCI Systems. M.Sc. Thesis, Goldsmiths College, University of London.

- **Jain, O.** (2021). The Effect of Auditory Simulation on Attention in Adults. PGD Thesis, Panjab University, Chandigarh.

CERTIFICATION

Enhanced DBS Certificate (Current & Valid)
Issued: [Feb, 2024]

Introduction To Good Clinical Practice (GCP) eLearning 2024
NIHR | Sep 2024

Foundations of Data Science
Google | July 2023

Academic Contributions

Abstract Reviewer
International Neuroethics Society & Società Italiana di Neuroetica – Neuroethics 2025
November 2024 – February 2025

- Reviewed and evaluated submitted abstracts for **Neuroethics 2025**, ensuring high academic and ethical standards.