

Athul **Sudheesh**

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EDUCATION

UNIVERSITY OF TEXAS AT DALLAS

MS in Applied Cognition & Neuroscience

Expected May 2018 | Richardson, TX

UNIVERSITY OF KERALA

B.Tech in Electronics & Communication

June 2014 | Kerala, India

SKILLS

LANGUAGES

Python • R • MATLAB • C++ • L^AT_EX

PACKAGES

scikit-learn • pandas • numpy • tensorflow

• keras • seaborn • scipy • matplotlib

• brian2

COURSE WORK

AI \ MACHINE LEARNING

Intelligent Systems Design

Intelligent Systems Analysis

Neural Network Mathematics

Probability & Statistics

Complex Analysis & Linear Algebra

NEUROSCIENCE

Systems Neuroscience

Cognitive Psychology

Intraoperative Psychological Monitoring

Research Methods

Computational Modeling in Behavioral and Brain Science

ELECTRONICS

Digital Signal Processing

Digital Systems Design with VHDL

Nanoelectronics

VLSI Design

Digital Image Processing

LEADERSHIP

• VP Public Relations, University

Toastmasters of Dallas • Secretary, IEEE

SCTCE Students Branch • Founding

Member, Kerala Startups Society

RESEARCH

MATHEMATICAL ANALYSIS OF ARTIFICIAL

NEURAL NETWORKS LABORATORY | Research

Assistant

Aug 2017 - Present | Richardson, TX

• Working on developing a neural network to solve the problem of inter-subject spatial normalization in brain imaging

• Revised articles on topics including: functional connectivity, spatial registration & normalization, resting-state fMRI and graph convolution networks

LAB FOR CLINICAL & INTEGRATIVE

NEUROSCIENCE | Research Assistant

Jan 2017 - May 2017 | Richardson, TX

• Conducted research on modeling an attractor network

• Investigated and explored various python packages available for modeling and simulations in neuroscience

• Educated fellow research assistants various neural network concepts

AWARDS

2016 **Indian Alumni Network Scholarship**

2012 **Manorama Yuva Mastermind Award**

2012 **Top 5 Campus Startups Award**

EXPERIENCE

DIONZ ELECTRONICS | Founder & CEO

Oct 2012 - Nov 2014

• Designed and developed Light Fidelity (Li-Fi) modems

• Designed and engineered various circuit boards for Kerala State Electricity Board (KSEB)

• Developed & executed organization's strategic plans

• Recruited, motivated and managed a high performance team of young professionals

PROJECTS

• Mind Controlled Wheelchair using EEG signals

• 3 Degrees-of-Freedom Humanoid Robotic Hand

• Autostereoscopic Omnidirectional Light Filed Display 3D Projector

INTERESTS

Science Journalism • Photography • Reading