Krishna Vijay Samayamantri

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Objective

Seeking a position as an entry level data scientist.

Summary

Biomedical engineer with 5 years of research and development experience in biomedical data analysis for diagnostics and human machine interface algorithms. Worked with ECG, EEG, EMG signals and IR imaging. Failed entrepreneur.

Education

M.S. Electrical Engineering (Biomedical Engineering Specialization)
California State University, Los Angeles - Spring 2019
Thesis: Performance of an SVM Classifier on Non-Invasive EEG for a 2-State BCI Controller
GPA: 3.855/4.0

B.E. (hon.) Electrical and Electronics Engineering
Birla Institute of Technology and Science (BITS) - Pilani - Fall 2012
GPA: 5.37/10.0

Certifications

Advances in Imaging and AI: Medical, AR-VR, Self Driving Cars, MIT Professional Programs - Jul 2019

Entrepreneurship: Launching an Innovative Business Specialization, Coursera and University of Maryland, College Park - Apr 2016

Related Experience

Work History

Krishna Vijay Technologies, Hyderabad, India, Founder - Feb 2015-July 2016

- Gyaan Academy – YouTube education channel. Personalized education. Learn in your mother tongue.

Student Research Intern, CEERI - Chennai, India - Jul 2012-Nov 2013

- Developed algorithm to find patterns in ECG data to classify into arrhythmia or normal heartbeat.

Projects

Performance of an SVM Classifier on Non-Invasive EEG for a 2-State BCI Controller (Master's thesis) - Feb 2018-May 2019
Control algorithm that interprets EEG of subject to detect their action or intent to control a robotic arm.

Automated IR Imaging of Broken Bones (AIRiBnB) - Oct 2016
Model to quickly identify and localize bone fractures from other injuries using IR imaging.

Multiple Object Tracking in 3D Using Stereovision - Jan - Apr 2012
Algorithm that tracks multiple objects in 3 dimensions using RJMCMC models for path prediction even during occlusion.

Relevant Courses

Fundamentals of Machine Learning • Neural Computation • Stochastic Systems and Estimation • Digital Signal Processing • Biomedical Signal Processing

Skills

Fields of Expertise: Machine Learning, Signal Processing, Image Processing, Biomedical Diagnostics, EEG, ECG, EMG, Motion Capture Data

Programming Languages: C, C++, Matlab, Python, LabVIEW

Markup: LaTeX, HTML, CSS

Accomplishments

- Published the paper titled, "Classification of Data Obtained from Portable ECG Devices Using Support Vector Machines" in ICAES-2013, an IEEE affiliated conference.
- Third prize in BioHackLA Hackathon conducted at Cal State LA on October 22-23, 2016
- Recipient of Honor's convocation - 2018
- Member of Golden Key Honor Society - 2018

Additional Experience

1. Volunteer at Art of Living Foundation, LA chapter, 2016 - present
    - Setup-breakdown team lead for all events since 2017
    - Resident sound engineer for all events since 2017
    - Tech support for audio-visuals
2. Member of Electronics and Robotics Club, BITS-Goa, 2008-2010
3. Volunteer at Nirmaan, BITS-Goa chapter, 2008-2010
4. Member of Department of Photography, 2008-2010
5. Member of Aeronautics Club, BITS-Goa, 2008

References

Available upon request.