

Vyom Raj

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EDUCATION

- **Arizona State University** Phoenix, AZ
Master of Science in Computer Science(Thesis); GPA: 0.00 Aug. 2017 – Present
- **National Institute of Technology** Raipur, India
Bachelor of Information Technology; GPA:8.79/10.0 July. 2013 – June. 2017

EXPERIENCE

- **Arizona State University** Phoenix,Arizona
Teaching Assistant August 2017 - Present
 - **Teaching Assistant - Introduction to Programming Languages CSE 110:** This course is taught by Professor Faye Navabi.My responsibility is to make the students learn how to code in Java by teaching them in labs and grade their lab submissions accordingly.I also conduct office hours to help them clear doubts.
- **National Institute of Technology** Raipur, India
Research Assistant July 2015 - May 2017
 - **Machine Learning and Brain Computer Interfaces:** I was working in the field of feature selection, feature extraction, classification,regression and performance analysis of various machine learning algorithms on different medical datasets involving EEG data under the supervision of Mrs Mridu Sahu.
- **Summer Research Internship** Aalen, Germany
Research Trainee Summer 2016
 - **Machine Learning and Data Mining:** Worked on the project titled- Performance of machine learning classifiers using Data mining for Sleep Apnea Patients under the supervision of Dr Manfred Bartel.

ACADEMIC PROJECTS

- **Bachelor of Technology Major Project :** Applying auto regression techniques on ALS patient EEG dataset with P300 Speller involving extensive study of ARIMA model along with feature selection.
- **Student Information System:** Built a python based web application using Django framework where students can register their details such as academics,job applications and extra curricular activities.Implemented features like students statistics, past year seat allocation details, graphic analysis of scores from previous year data.
- **Alumni Website NIT Raipur:** Created a test beta web application using MySQL and Php for Alumni of NIT Raipur as a part of Technical fest Aavartan 2013.
- **Java Based Application for Job Search:** Designed a program which constructed a job allocation for applicants using Gale-Shapley algorithm for stable matching to match applicants with experience and skills based on their Expertise.Used Java to implement this with emphasis on modular design and portability.

PROGRAMMING SKILLS

- **Languages,Platforms and IDE:** R, Python,C++, C#, Java,SQL,IntelliJ,Eclipse,Android Studio,PyCharm
- **Machine Learning Tools and APIS:** Weka,Tensorflow(beginner),Scikit-Learn,Theano(beginner)
- **Frameworks:** Django,AngularJs,.NET Framework

RESEARCH PAPERS

- **Impact of Ranked Ordered Feature List on Classification with Visual Data Mining Techniques:** (Selected for the IEEE-ICEEOT conference [3rd March 2016] and published in IEEE Xplore digital Library) [Link]
- **Impact of Discretization on Classification of Data using Divide and Conquer Paradigm:** (Selected for the IEEE-ICEEOT conference [3rd March 2016] and published in IEEE Xplore digital Library) [Link]
- **Development of Efficient Back off Algorithm for Multi hop AD-HOC Network:** (Published in International Journal of Control Theory and Applications) [Link]
- **Dimensionality Reduction for Motor Imagery Signal Classification using Wavelet Analysis:** (Published in International Journal of Control Theory and Applications) [Link]