VISHAAL MADANAGOPAL

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Objective	Graduate Electrical Engineering student from University of California,Riverside seeking full time opportunities.

Education

University of California, Riverside	Sept '16-Mar '18
Master of Science- Electrical Engineering	
Anna University	Aug '11-May '15
Bachelor of Engineering- Electronics and Communications Engineering	

Relevant Courses

Data Mining Techniques, GPU Architecture and Parallel Programming, Pattern   Recognition, Design and Synthesis of Cyber Physical Systems, Data Center Architecture, Wireless Communication, Advanced DSP,Network Routing,Error Correcting Codes,Stochastic Process.

Technical Skills

Expert: Python, C#, MySQL, MVC, Apache Tomcat Server, Netbeans,MS Office,ASP .NET, JSP, C++, Java(J2SE and J2EE), Eclipse, Ubuntu, Windows, HTML.

Beginner/Exposure : Angular JS, MongoDB, GPGPU Sim, Weka, Git,Tensorflow,Caffe,Scikit-learn, LSTM, AWS, JavaScript, Azure, Hadoop, CUDA Programming, Android APK, Parallel Algorithms.

Work Experience

University of California, Riverside, Graduate Researcher   Sept '16-Mar '18

- Worked under the guidance of Dr.Yingbo Hua on Blind Identification of Speech Signal in Multi Microphone Array System as my Graduate Thesis Work.
- The Mixing matrix was assumed to be overdetermined (no. of sources > no. of sensors)

Cognizant Technology Solutions, Software Engineer   Nov '15-Jun '16

- Trained in C# .NET and was the batch representative of my batch during training period.
- Developed and Maintained on Anthem Health Claim Processing framework called 'LITES'

Academic Projects

Gene Pathogen Correlation Identification   Fall '17

- Explored the probability of the presence of a particular Allele in the Gene Sequence to a particular disease.Trained a model with an increased accuracy of 70% to predict the same.
- Trained a model to predict with different Data Mining Paradigms, including Naive Bayes, K-Nearest Neighbour and Support Vector Machines, and with the data from GWAS.

Speech Recognition using Long Short Term Memory Architecture   Winter '17

- The different dialect/ pronunciations of a particular word were be modelled effectively using the delay modules in LSTM. LSTM had an higher accuracy of 72.4% for the same.
- Trained a model to take in a set of audio recordings as input and to correctly predict the word/number being spoken with the existing dictionary of spoken word/text data.

Image Identification on the MNIST dataset of handwritten digits   Winter '17

- MNIST dataset consists of a collection of variations of scribes of the numbers from 0-9.
- Implemented a model to identify the digits and compared them with existing models.

Data Representation and Classification for Web Data   Fall '17

- Crawled the first 20 spreadsheets in the wikicfp web page for requested data.
- An array of search and sort algorithms were used to Identify and remove duplicates.These algorithms were run on the 1000+ entries of crawled data and data visualization techniques and tools were used to make sense of it.   .