Chaitanya Boggavarapu

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Portfolio:
https://chaitanyaboggavarapu.github.io/Chaitanya/About.html

SUMMARY

- **4+ years** of professional experience in software development with expertise in Analysis, Design, Development, Implementation and testing
- Proficient knowledge in statistics, mathematics and analytics.
- Developed ML and Deep-learning models for facial expression recognition, Sound-Separation and patient classification.

TECHNICAL SKILLS

Programming: Python, JavaScript, jQuery
Frameworks: Flask, Django
Image Processing Tools : CV2, Pillow, Scikit-image, Matplotlib
Machine Learning Algorithms: Logistic Regression, Linear and Multi Regression, K-Means
Optimization Techniques : Gradient Descent, Newton, Limited-memory BFGS
Databases: MySQL, SQLite, Postgres, MongoDB
Frontend Technologies: ReactJS, HTML, CSS, Bootstrap, JSON
Deployment Tools: Git, Docker
Cloud Technologies: AWS, Heroku
Data Analysis: Pandas, Numpy, Scikit-Learn, Keras and TensorFlow, Excel, SPSS, Tableau
Operating Systems: Windows, Linux

EDUCATION

The University of New Mexico, Albuquerque-NM. **Graduation – July 2020**
M.S., Computer Engineering – GPA 3.8
SRM institute of Technology-Chennai **July 2014**
B.Tech, Electronics and Communication Engineering– GPA 7.6

EXPERIENCE

Research Assistant- Software Engineer, Mind Research Network, Albuquerque-USA. **Aug 2019 – July 2020**

- Designed and built **machine learning models(Logistic Regression)** for classifying controls to Schizophrenia patients
- Developed interfaces for participant login, assessments, and study recruitment using **JavaScript,** and **VueJS**
- Developing **Convolution Neural Network Model(u-net and PIT)** using **transfer learning** for source separation in sound.
- Created a model for facial expression recognition using **Keras, TensorFlow, Python** using **Deep Learning** techniques
- Developed data analysis model(**frequentist)** using **SPSS** for calculating correlation between Facet score and time.
- Developed Bayesian statistic regression models using **R, OpenBUGS**

Software Engineer, Wipro Technologies, Hyderabad **Dec 2014 – Dec 2017**

- Created **ASP.NET** based web application to create work and tag local beneficiaries for the rural development. Website:https://www.india.gov.in/integrated-watershed-management-programme-ministry-rural-development
- Worked for **FedEx(Client)** in migrating data from Mainframes to PeopleSoft from IMSDB database.
- Developed Front-end modules with **JavaScript, ReactJS, and jQuery, Bootstrap, HTML and CSS.**
- Writing complex queries, stored procedures, materialized views, analyzing database objects, creating indexes for optimizing database (**SQL**) performance.
- Maintaining a version control system using **GIT Source Control Management** for tracking application changes and coordinating work among various developers

ACADEMIC PROJECTS

- **AOLME –** AOLME project is to teach middle school students, visual learning in Engineering and Mathematics
- **Chatbot - Artificial Intelligence:** Built an interactive chatbot which served as an Anti-smoking aid that keeps a counter of number of cigarettes smoked, alternatives to tobacco and serves weekly progress using **Python** and **Dialogflow**
- **Flask Application:** Developed application using **Flask and SQLlite** to track students leaving new Mexico(Educational Purpose) and launched the application in **Heroku :** https://trackarrival.herokuapp.com/