Mehak Beri

2200 Waterview Parkway, Richardson, TX 75080 | (646)8946202 | mehak.beri@utdallas.edu

https://www.linkedin.com/in/mehakberi | https://mehakberi.github.io/ | Work Authorization: F-1 VISA

EDUCATION

- **Master of Science,** Computer Science, The University of Texas at Dallas
  GPA- 3.87/4.0 | Expected Graduation: Aug 2019
- **Bachelor of Engineering,** Electrical and Electronics Engineering, Panjab University, Chandigarh, India
  CGPA- 8.33/10 | Graduated with Honors: May 2016

PUBLICATIONS

- Rotation Direction Control by Finger Movement, 2014 IEEE ICCIC   Dec 2014
  IEEE Xplore: Catalog Number: CFP1420J-ART | ISBN: 978-1-4799-3975-6
- Intelligent Floating Car Parking System, 2014 RATEE   Dec 2014
  ISBN: 978-93-84869-05-2/323

EXPERIENCE

- **Machine Learning Intern | Natel Energy | Upstream Tech**   Jan 2019 - May 2019
  Implementing Convolutional Neural Networks on Satellite Imagery and extracting different band information by extrapolation from given satellite images
- **Machine Learning Intern | Samsung SARC**   May 2018 – Jan 2019
  - Machine Learning for Seed placement & PIML Data (Weka, TensorFlow, Python):
    Analyzed the semiconductor chip production data (over 20K dimensions) at unique design flow steps and recommended register seed placement locations (coordinate values) which will yield better success parameters at the end of flow process
  - Data Architecture Modelling (InfluxDB, Grafana):
    Condensed data at SARC from various sources and design processes to create time series analytics platform. Enabled data visualization, data pre processing and user specific data operations
  - Interactive Data Analysis and Visualization Dashboard (Python, Flask, Dash, MongoDB)
- **Full Stack Programmer | UTD Center for Brain Health**   Oct 2017 – May 2018
  Responsible for providing full stack web programming solutions (HTML, CSS, PhP, Javascript, Node, Express)
- **Software Engineer | Seekhley, Gemini Solutions, Gurgaon, India**   Jan 2016 – May 2017
  Seekhley webapp development using HTML, CSS, Bootstrap, Jquery, Javascript, Node.js, MVC architecture

PROJECTS

- **Machine Learning Independent Research | UTD CS Department**   Jan 2018 – May 2018
  Computational Ethics **:** Creating machine learning powered, and human annotated solution to solve ethical dilemma scenarios, particularly in an emergency setting for a search and rescue robot using WEKA & Python
- **Mask IT | IOT + Machine Learning + MEAN | Winner OneM2M Hackathon**
  Solution to air pollution using real time communication with IOT sensors using perceptron machine learning trainer for decision making || OneM2M protocol, Python, Express, NodeJS
- **CHAI | Machine Learning + Natural Language Processing | Submitted at Hack Princeton**
  Critique Handling Artificial Intelligence-or CHAI created for ML powered grading of school essays. Features extracted using NLP followed by ML via Linear Regression model (Accuracy 70%) || Python, Express, NodeJS
- **IAPS: Suicide Prediction in India | Machine Learning:** Aims to predict the probability of a death being a suicide based on the data collected about the victim. 82% accuracy achieved by Bayesian networks || Weka
- **Machine Learning Projects**
  Implemented Independent Bayesian Network, Tree Bayesian Network, Mixture of Tree Bayesian Network using Expectation Maximization , Collaborative Filtering on Netflix Ratings , K Means Clustering for image compression , Email Spam Classifier, Decision Tree in Java and Python
- **Semantic Search Application | Natural Language Processing:** Enables keyword based search, semantic search index creation on news article corpus. Uses Part of speech tagging, syntactic parsing and feature extraction

ACCOMPLISHMENTS

- Won 2nd Place in OneM2M Hackathon organized at UTD, Dallas   Mar 2018
- Certified LabVIEW Associate Developer (CLAD) | National Instruments   July 2017
- Conferred IEEE Outstanding WIE Student Volunteer Award   Feb 2015