Kuldeep Luvani

Long Beach, CA-90815

kuldeepluvani@gmail.com (562)-583-4223 https://kuldeepluvani.github.io/

OBJECTIVE

Seeking an opportunity that would allow me to utilize my 3+ years of experience and skillset and intensify the core understanding of algorithm development, deep learning, machine learning and data modeling.

EDUCATION

Masters of Science in Computer Science – California State University, Long Beach (Expected Dec 2017)
Bachelors' of Technology in Electronics – Charotar University of Science and Technology (May 2013)

WORK EXPERIENCE

California State University Long Beach - Research Project (Jan 2017 – Currently)
- Created an amazing wearable keyless computer keyboard that uses machine learning techniques using Python OOP.
- This gadget made from integration of sensors and machine learning technologies like Hidden Markov Chain, Viterbi Algorithm, Corpus word prediction, MLE and built predictive model.

California State University Long Beach – **Research Assistant** (May 2016 – Jan 2017)
- Developed an advance computational model to implement computer automation for dual x-ray image processing techniques, pattern classification and data mining to detect nuclear substance in cargo containers.
- Implemented K-mean clustering technique to demonstrate unsupervised classification technique with color based image segregation and canny edge detection techniques using Python OOP.

EInfochips – **Design Engineer** (Feb 2013 – Mar 2015)
- Worked on designing of hardware product and implemented software from requirement to production and commercial deployment.
- Integrate and validate product design and code. Analyze and enhance stability, scalability and efficiency of system by troubleshooting embedded targets Experienced in agile and waterfall methodology.

PROJECTS

- **Movie Recommendation Engine**
  - Implemented data analysis on movie database to provide smart recommendation based on user ratings database.
    Language: Python (OOP), R Algorithm: Pearson similarity
- **Distracted Driver Detection**
  - We build a convolution nueral network that detects distracted driver and classify its type of detection.
    Language: Python (OOP) Technology: CNN, Classification, AWS
- **Probabilistic data model of Power House Management System**
  - Used predictive modeling and optimization on raw data with Independent Monte Carlo simulation and queuing theory techniques. Derived statistical data of power failure and power station upgrade priority.
- **Time Series Prediction – Stock Prediction Engine**
  - A data science prediction engine can predict exchange rates and stocks, so trader can gamble based on prediction.
    Language: Python(OOP) Algorithm: Regression, ARIMA Technology: sklearn, tensorflow
- **Twitter Sentimental Data Analysis**
  - A text analysis algorithm to classify polarity of any tweet using NLTK.
    Language: Python(OOP) Algorithm: Sentiment analysis Technology: NLTK, Twitter API
- **Maze solver Robot**
  - Designed a robot which can solve the maze and find the shortest path. It includes an algorithm to choose a path, sensors to detect obstacles and microcontroller.
- **Google Project ARA – Modular Cell Phone**
  - For an innovative modular cell phone concept, we build USB module which is used to design and develop other Project ARA modules.

SKILLS:

Languages: Python, R, C, C++, SQL, Java, Assembly Language, Shell scripting
Tools: JetBrain, R Studio, MATLAB, Weka, aRTist, Github, Eclipse, Keil
Key Concepts: Algorithm and Data Structures, Data simulation and modeling (Pandas, matplotlib, scikit-learn, Scipy, Numpy, Mlpy, NLTK, Caffe, pytorch, tensorflow, RNN), AWS, Apache Kafka, Image Processing, Signal Processing