Kuldeep Luvani

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OBJECTIVE

Seeking a full-time position that would allow me to utilize my around 3.5 years of experience and skillset and intensify the core understanding of algorithm development, deep learning, machine learning and data modeling.

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
- **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
- **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.

EDUCATION

Masters of Science in Computer Science – California State University, Long Beach (Dec- 2017)

Bachelors' of Technology in Electronics – Charotar University of Science and Technology (May-2013)

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, Statistical data analysis modeling (Pandas, matplotlib, scikit-learn, Scipy, Numpy, Mlpy, NLTK, tensorflow, RNN), Machine learning techniques, Image Processing, Signal Processing