

Kuldeep Luvani

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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.

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 (Expected 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: JetBrains, 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), AWS, Machine learning techniques, Image Processing, Signal Processing