Pooja Bhojwani

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GitHub LinkedIn

Education

Masters in Computer Science University of Victoria Sept 2015-Till date
Bachelor of Engineering Rajasthan Technical University July 2008- Aug 2012

Technical and Professional Skills

Core Concepts
- Data Mining
- Database Systems
- Artificial Intelligence
- Machine Learning
- Relational Databases
- Deep Learning
- NLP
- Data Algorithms
- Web Programming
- MVC Architecture

Languages
- Python
- Ruby
- R
- Java
- Java Script
- HTML5
- CSS
- C/C++
- SQL
- MATLAB

Distributed Framework
- Hadoop
- Spark

Databases
- SQL
- VSAM
- DB2

Testing / Version Control Software
- Git
- SVN
- Selenium
- RSPEC

Operating Systems
- Mac OS
- Windows
- Unix
- Linux
- Z OS

Professional Experience

Software Engineering Intern, Change.org, Victoria, Canada May 2016 - Dec 2016
Technologies: AWS, SQL, HTML, CSS, JavaScript, Ruby on Rails

- Was responsible to consolidate all User access to a single standalone service. It involved playing around with the legacy databases and unlinking the User related information from the core consolidated databases.

Mad Scientist, Mad Science, Victoria, Canada Nov 2015 - April 2016
Technologies: Scratch

- At MAD Science, our goal was to come up with innovative ideas and to mesmerize the school going kids with various cool science experiments.

Software Engineer, HCL Technologies, Chennai, India June 2013 - July 2015
Technologies: DB2, SQL, Python, Mainframes

- Was responsible for migrating millions of customers' information from the various administrative systems into a single SQL database.
- Was a part of the project aiming for incorporating various insurance products into the new admin system which resulted in the cost saving of $3M for AIG.

Teaching Experience

Graduate Teaching Assistant University of Victoria, Canada Jan 2016 - Till Date
Technologies: Artificial Intelligence, Database Concepts, Python, SQL, JavaScript, HTML, CSS

- Responsible for grading assignments and midterms for CSC 371(Database Management and Visualization) and CSC 421(Artificial Intelligence) and providing programming assistance to undergraduate students of CSC department

Relevant Projects

Large Scale Market Basket Data Analytics *Github*

Technologies: Java 8, Hadoop, Spark, Big Data Analytics, Data Algorithms

- In this exploratory project, couple of data mining algorithms namely, Apriori, FP-Tree , DCM have been implemented to mine data through a large data set(Instacart) of user-product information, using cluster computing frameworks.
- Eventually, we could find the user-user similarity, item-item similarity and some of the dominant association rules in Instacart data.

Facial Emotion Recognition to unlock applications *(Smile to Unlock)* *Github* *Demo*

Technologies: Artificial Intelligence, OpenCV, Python, Anaconda, Keras, Deep Learning

- The goal of this project is to explore the future of face recognition and Facial Emotion Recognition for application level security.
- The application does the following: Identifies the person facing webcam, detects his/her emotions and unlocks if it finds right person with right emotions!

Optimizing the friend finding algorithm in popular Social Networking Sites *Github*

Technologies: Hadoop, Spark, Data Mining, Big Data Analytics, Java 8

- This research is oriented towards contributing towards the field of Social Networking by coming up with an efficient algorithm to recommend possible friendship triangles or email triangles in any Social Network.

Linked-eed (Indeed + LinkedIn) *Github* *Demo*

Technologies: Python, Flask, Selenium, Data Analysis, JSON, XML

- A job recommender system which matches your LinkedIn skills to the jobs in Indeed and finds the right job for you.
- It extracts the data from Indeed, LinkedIn, preprocesses and mines it. In the end, it recommends the list of right jobs for a user based on his/her LinkedIn skills.

Mood Based Application *Github* *Demo*

Technologies: Python, Scikit Learn, Machine Learning, Music Information Retrieval

- A music retrieval application supporting mood classification. This project was centralized to get a deeper understanding of feature extraction and feature selection.
- It involved classification of songs from a dataset and label them as per the mood and then suggesting song for user on the bases of his/her mood.

Volunteer Experience

Director at Large	UVIC Indian Students' Association	Sep' 15 – May 16
Convener	GWECA, India	Sep' 10 – Aug' 12
President	BATCH- EC2012, GWECA	Aug 08 – July 11

Personal Interests

Yoga, Sketching, Painting, Reading, Crafting, Hiking

References

References Available as Required