CHANDRIKA SHARMA
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EDUCATION

Northeastern University, Boston, MA Sept. 2016 - Sept. 2018
Master of Science in Computer Science
Related Course: Large Scale *Parallel Data Processing, NLP, Fundamentals of Artificial Intelligence, Web Dev, Algorithms*
M.S. Ramaiah Institute of Technology(MSRIT), Bangalore, India June 2009 - June 2013
Bachelors in Technology in Computer Science and Engineering
Related Courses: *Design and Analysis of Algorithms, Operating Systems, OOPS, Artificial Intelligence*

PROFESSIONAL EXPERIENCE

New York Life Labs – New York, USA Jun. 2017 – Dec. 2017
Cloud Software Engineering Intern
- Developed a **Face to BMI calculator** web-app to improve insurance underwriting process.
  - Wrote Python Scripts on Jupyter Notebooks to extract Reddit based dataset (using Beautiful-soup) of 1000 images and sliced out faces from the images using AWS Rekognition and Open-CV.
  - For feature engineering used Pre-trained CNN models like VGG Faces and trained Epsilon SVM Regression Model to predict the BMI. The accuracy obtained was 59%.
  - Technology used: OpenCV, Tensorflow, Sci-kit, AWS-Rekognition, AWS EC2, Jupyter Notebook, AWS S3.
- Part of a team of developers to implement a more efficient system with rule-engine based auto-approval & better UX for under writing process.
- Developed the NYL Ventures website through its entire development lifecycle.
  - Integral part design decisions. Developed website using Adobe Experience manager, component based frame work that enables creation of reusable components for a web page.

Ernst & Young – Gurgaon, India Oct. 2015 - Aug. 2016
Associate Consultant
- Created a web portal to manage Software Licenses and for all vendors using Bootstrap, My-SQL, PHP.
- Managed SAM Services, SAM tool implementation, Software License Optimization, Internal Audits, Asset Identification, Audit Readiness, Cloud and Virtual infrastructure licensing

ACADEMIC PROJECTS

An RNN-Based Question-Answering system using Wikipedia – Northeastern University *Feb.2018 – Present*
System to answer Questions using the vast knowledge base of Wikipedia. Using RNNs for parsing the question asked into useful information, Search for retrieving relevant documents in which to search for the answer using n-gram Hashing. Using multi-layer RNNs to search for the answer that is most likely to be correct within those documents.

Implemented PageRank in MapReduce and Spark – Northeastern University *Feb.2018- Mar.2018*
Scripts to convert input Wikipedia data into a graph represented as adjacency lists. Used Hadoop MapReduce to implement the Page Rank Algorithm with set the random probability to follow a link as 0.85, and probability of jumping to a random page as 0.15. **Technologies Used**: AWS-S3, AWS-EMR, Spark, Scala, Java Map-Reduce.

MEAN Stack Student-Mentor Portal – Northeastern University *Feb. 2017 - Apr. 2017*
Portal to get student and professors closer to create a space where students can be mentored by professors through participation in projects and courses. APIs used: LinkedIn, Facebook, edX.
Technologies used: MEAN Stack

Restaurant recommendation using Artificial Intelligence – Northeastern University *Sep. 2016 - Dec. 2016*
Used AI techniques to give personalized suggestions of restaurants to the users of a restaurant search and discovery system by learning from user preferences using Perceptron and SVM data classifiers.
Technologies used: *NumPy*, SVM and Perceptron library, Kaggle derived data.

Automatic Theft Security System – MSRIT *May. 2013 - Jul. 2013*
Implemented Viola Jones Algorithm on Open-CV to produce facial recognition system to prevent theft.