SHRESTHA MALIK

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EXPERIENCE

Software Engineer, Intel Corporation Limited, San Diego, CA Since April 2017

Part of the research and development team for prototyping solutions in the connected devices, automotive space

- Enabled novel healthcare and auto use cases by applying machine learning and computer vision algorithms. Experience with LSTM, CNN and object detection models
- Designed and implemented video stream analyzer feature, which processes the camera feed by applying computer vision and CNN classification model and updates the database, integrated in a multithreaded, multi-tiered client server framework developed in C++
- Implemented the Tensorflow object detection pipeline in C++ to achieve runtime efficiency
- Developed a pixel labeler tool with user-friendly GUI to record points-of-interest on image to enable semi-automatic data generation for image pre-processing
- Recognized multiple times for my contributions via the "Recognition at Intel" program

Data Science Intern, Source Intelligence, San Diego, CA July 2016 -September 2016

- Designed a machine learning model to predict user-interest from invite data, to enable a more targeted workflow
- Carried out extensive data wrangling, web scraping, cleaning and transformation of data, for feature extraction
- Achieved a recall of 70% and provided actionable data insights for business

EDUCATION

University of California, San Diego, USA *March 2017*
Masters in Computer Science, GPA: 3.77/4

Xavier Institute of Management, Bhubaneswar, India *March 2012*
Post Graduate Diploma in Business Management (MBA), GPA: 5.86/8

Nirma Institute of Technology, Ahmedabad, India *May 2008*
Bachelor of Technology, Electronics and Communication, GPA: 8.67/10

TECHNICAL STRENGTHS

Skills	Software Development, Object Oriented Programming, Machine Learning, Computer Vision Programming Languages: Java, Python, C++, MATLAB Tools: Tensorflow, Neon, Caffe, Python GUI, OpenCV, SQL, MongoDB
Courses	Algorithms, Operating Systems, Probabilistic Reasoning, Machine Learning, Data mining Image Recognition using Neural Networks, Multiview Geometry, Distributed Systems

ACADEMIC PROJECTS

- **Distributed File System** *Java*
  Implemented the Remote Method Invocation library and developed a simple distributed filesystem using it
- **Amazon Books Dataset** *Python*
  Mined Amazon Books' data to extract features and predict the helpfulness of reviews
  Applied collaborative filtering and latent-factor modeling to predict rating of a book by an user
- **Facial Expression Recognition** *Python*
  Built a convolutional neural network that achieves an accuracy of 65% on the Kaggle Dataset FER-2013, matching the human accuracy of $65 \pm 3\%$
- **Yelp Rating Prediction from Review Text** *Python*
  Explored text mining techniques (bag of words, topic modeling) to predict rating of a restaurant
  Analyzed geographical and temporal trends and clustered users with similar tastes to enable recommendation
- **Web Applications** *Html, CSS, JavaScript, jQuery, AngularJS, Bootstrap*
  Designed and built my web portfolio from scratch