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ASHISH JHA

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WORK EXPERIENCE

Senior Data Scientist	**Tractable**	**Oct 2018 – Present**

- Building Car Insurance Claims Fraud Detection AI Pipeline. Tabular Claims Data + Multi Task DNN Model (PyTorch)

Senior Data Scientist	**Sentiance**	**May 2016 – Aug 2018**

- Leading the major data science team of 4 data scientists and 2 data engineers working on mobile sensor data.
- Constructing an xgboost + LSTM framework (in keras) for GPS based transport mode classification.
- Implemented a user timeline event predictor using deep learning - CNN + LSTM (on tensorflow).
- Created data science tools using (i) spark (for spark jobs) (ii) boto3 (for AWS), (iii) javascript (for labelling data).
- Developed smart home AI based solutions for Philips Vue and Samsung SmartThings Hub.

Internship + Master Thesis	**Sony Deutschland GmbH**	**Aug 2015 – Feb 2016**

- Implemented a CNN based audio event detection model with Theano on the UrbanSound dataset.

Applications Engineer	**Oracle India Pvt Ltd**	**Jun 2013 – Aug 2014**

- Developed APIs for Social Customer Service project that were included in Oracle RightNow 14.8 product release
- Created a system-startup shell script for my team that builds the trunk, database and runs the unit-tests daily

EDUCATION

Lausanne, Switzerland	**École Polytechnique Fédérale de Lausanne**	**Sep 2014 – Feb 2016**

- M.S. in Computer Science, GPA: 5.67/6.0 (ECTS)
- Coursework: Pattern Classification and Machine Learning; Big Data; Computer Vision; Natural Language Processing; Distributed Algorithms; Distributed Information Systems; Advanced Computer Graphics

Roorkee, India	**Indian Institute of Technology, Roorkee**	**Jul 2009 – May 2013**

- B.Tech. in Electrical Engineering, CGPA: 9.14/10.0
- Coursework: Digital Image Processing; Data Structures; Programming with C++;

PROJECTS

- **Human pose estimation using Deep Learning [EPFL]** (2015). Used RGB images from Human80K dataset to regress 3D poses using deep convolutional neural network. Obtained state-of-the-art results. Theano, Matlab.
- **Deep Learning to identify patterns in Manuscripts [EPFL]** (2015). Implemented image pre-processing task for manuscript pages and extraction of words and sentences from handwritten text. OpenCV-Java, Spark.
- **Travel Search Optimizer [Self]** (2015 - present). Finding when-to-search for best availability and prices at sites like blablacar by learning the variation patterns using neural networks. Scikit-Learn, TensorFlow, Amazon EC2.
- **Implicit feedback based Recommender System [EPFL]** (2014). Built a song recommender system based on user-user collaborative filtering using alternating least-squares model. Matlab.
- **Person detection in Images [EPFL]** (2014). Designed an SVM and a logistic regression model using HOG (Histogram of Gradients) of images as input features. Evaluated using ROC curve. Matlab

LANGUAGES AND TECHNOLOGIES

- **Python** (sklearn, tensorflow, keras, pandas, jupyter, flask, seaborn); **C++**/C ; **SQL**; D3js; HTML; Javascript
- **AWS** (EC2, S3, EBS, EFS, AMI,..); **Spark**; **Docker**; **Kafka**; **Linux**; **Git**; PyCharm; Datadog; Jira; Confluence

ADDITIONAL EXPERIENCE AND AWARDS

- **Second Prize, IBM Technology Contest 2011:** For : 'Using Wearable Technology Against Rape in India'
- **World finalists, Thought For Food, Berlin, 2013. Ambassador, Thought For Food, Europe, (2017-now)**
- **Coursera courses:** Mining Massive Datasets, Machine Learning, Deep Learning, Algorithms