UDAY MITTAL

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EDUCATION

University of California, Irvine
MS Computer Science | 2015 - 2017
GPA: 3.667

Courses: Machine Learning, Design & Analysis of Algorithms, Visual Computing, Image Understanding*, Information Retrieval*

Indian Institute of Technology Mandi
B-Tech Electrical Engineering | 2009-2013
GPA: 8.11/10

Courses: Digital Image Processing, Artificial Intelligence, Computer Networks, Computer Architecture, Operations Research

EXPERIENCE

GRADUATE TEACHING ASSISTANT

University of California, Irvine, Jan'16 - Present

Teaching Assistant for ICS32 (Programming with Software Libraries). Assisted students with projects coded in python.

FULL STACK DEVELOPER

Khosla Labs/Novopay, India, Apr'14 - Jul'15

Handled the analytics roadmap at Novopay. Developed a service based platform for real-time analytics. Designed and developed dashboards to monitor the health of the sales system, infrastructure and the business as a whole. Empowered the sales team with android applications and dashboard tools to efficiently plan and manage their fleet using geo-fenced workflows.

SOFTWARE ENGINEER

Vidura Inc., India, Jun'13 - Apr'14

Led feature design and development of the server architecture for a p2p data/voice streaming application. Enabled communication between peers behind NAT environment using TCP hole-punching & a relay server. Developed scalable relay servers supporting up to 1000 concurrent connections. Achieved scalability using a custom load balancer & auto-scale-on rules.

TECHNOLOGIES

DAY-TO-DAY COMFORT

- Java
- Python
- Git
- Javascript
- AWS (EC2)
- HTML \ CSS
- Spring-Web
- Maven
- MySQL
- Elasticsearch
- Kibana

EXPERIENCE WITH

- D3.js
- Android
- Protobuf
- Hibernate

PROJECTS

MACHINE LEARNING

Predicting Store Sales using Neural Networks, Kaggle: Rossmann | 2015

Used GPU accelerated learning with Neural Networks to predict 6 month sales of 1115 stores. Created an ensemble of 3 neural network topologies and achieved a root mean square percentage error of 0.14.

Electrical Load Forecasting and generation Scheduling (Bachelor's Thesis) | 2012 - 2013

Analysed load forecasting using EWMA, ARMA, ANN & Linear Regression. Reduced current electrical load forecasting error percentages in Himachal Pradesh (India) by 5% using weather and seasonal patterns observed. Developed scheduling algorithms for electricity generation mixes between renewable & non-renewable energy

IMAGE ANALYSIS

Automated Cervical Cancer Detection using Pap-Smear Sample Slides | 2011 - 2012

Piloted a study at GTB Hospital PathLab(Delhi) to understand the Bethesda's system for reporting cervical cancer. Designed and implemented an algorithm based on statistical image analysis to classify images of squamous and glandular cervical cell abnormalities. The algorithm classified images with 80% accuracy in the sample set

*Ongoing