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Omkar Acharya

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EDUCATION

North Carolina State University
Raleigh, NC

Master of Computer Science — Aug 2016 – May 2018

GPA: 4.0 / 4.0

Coursework: Foundations of Data Science, Artificial Intelligence, Databases, Automated Learning & Data Analysis, Graph Theory, Business Intelligence

Pune Institute of Computer Technology
Pune, India

Bachelor of Computer Engineering — Aug 2012 – June 2016

GPA: 3.8 / 4.0

Coursework: Algorithms, Computer Networks, Data Structures, Software Engineering, Data Mining, Natural Language Processing

EXPERIENCE

Quantworks Inc.
Raleigh, NC

Backend Developer (Co-Op) — Sept 2017 – Present

Technologies: Python, MySQL, Numpy, ARIMA

• Working on Time Series Analysis for Inventory Management System
• Automating the clinical data loading from medical records into database using RED-I APIs as a continuation of the internship work

Quantworks Inc.
Raleigh, NC

Graduate Intern — May 2017 – Aug 2017

Technologies: Python, C++, Adobe Acrobat SDK, NLTK, Pandas

• Designed a Smart Abstractor for scanned medical records
• Wrote automation plug-ins for highlighting and bookmarking
• Implemented RegEx to make the context based searching efficient
• Decreased the manual abstraction time from *3-4 hours* to *15-20 mins*

iKnowlation Research Labs
Pune, India

Machine Learning Intern — Aug 2015 – Apr 2016

Technologies: Python, Deep Learning, ConvNets, LSTM, Nvidia Caffe

• Led a team of 4 for a project to generate video description in English
• Finetuned Nvidia Caffe models on Stanford's ImageNet dataset
• Trained Long Short-Term Memory models on MSCOCO dataset
• Improved the system's accuracy from 63% to 77%
• Awarded the **Best Project** in Deep Learning at Birla Institute, Goa

CERTIFICATIONS

• Machine Learning (Stanford University – Andrew Ng)
• Mining Massive Datasets (Stanford University – Jeffrey Ullmann)
• Computer Science 101 (Stanford University – Nick Parlante)
• Web Apps Architecture (University of New Mexico)
• Introduction to Linux (Linux Foundations)

PROJECTS

Yelp Photo Classification
Technologies: Python, Caffe, Scikit-Learn
Kaggle Rank: 134th, F1 score: 0.765
Trained a Convolutional Neural Network and built a Support Vector Machine classifier on Yelp's dataset using Caffe

Sentiment Analysis
Technologies: Python, Apache Spark
Accuracy: Twitter 63.56%, IMDB 83.49%
Built a Logistic Regression classifier Doc2Vec and Artificial Neural Nets

Settlement Mapping
Technologies: Python, R, Weka, QGIS
Cross Validation Accuracy: 80%
Implemented Gaussian Mixture Models using Expectation Maximization algorithm and 1-Holt classifier

Personal Health Manager
Technologies: Java, JDBC, Oracle SQL 11g
Implemented database triggers for the unusual events and medical emergency

Leave Manager
Technologies: HTML, CSS, PHP, MySQL
Selected as the **Best Project** by undergraduate institute and replaced the existing paper based system

SKILLS

Proficient: C++, Python, R, HTML
Intermediate: C, Java, MySQL, Oracle 11g, CSS, Q, Scikit-Learn, Numpy, Pandas, Caffe, NLTK, Weka, Octave, Doc2Vec, Tableau, Adobe SDK, UNIX
Familiar: Javascript, PHP, Apache Spark, Node.js, LaTeX

ACTIVITIES

• *8th* in NCSU programming competition
• *47th* in ICPC North America Qualifiers
• Volunteer at NCSU's Career Center
• NGO – Deepastambha Charitable Trust