Siddharth Kumar

sidkuma24.github.io

EDUCATION

SAN JOSE STATE UNIVERSITY
Masters in Computer Science
Expected May 2019 | San Jose, CA
Cum. GPA: 3.5 out of 4.0

IIEST, SHBIPUR
Bachelors in Computer Science and Technology
April 2016 | Howrah, WB, India
Cum. GPA: 3.52 / 4.0

COURSEWORK

GRADUATE
CS256 Topics in AI
CS235 User Interface Design
CS185 Solving Big Data Problems
CS267 Distributed Systems
CS267 Topics in Databases
CS218 Topics in Cloud Computing
CS252 Advanced Programming Language Principles

UNDERGRADUATE
CS801 Artificial Intelligence
CS701 Software Engineering
CS704/6 Information Security
CS601 Database Management
CS 501 Design and Analysis of Algorithms
CS502 Operating Systems

TECHNICAL SKILLS

LANGUAGES
Java • C++ • Python • JavaScript
PHP • R • Haskell • HTML • CSS

FRAMEWORKS
Spring • Struts • Angular.js • Node.js
Django • Hadoop • Spark • Kafka

DATABASES
MySQL • PL/SQL • MongoDB

TOOLS
Android Studio • Toad • SAP BO

CLOUD
OpenStack • Google Cloud Platform

OTHERS
SciPy • Tensorflow • Matlab • Github
Latex

WORK EXPERIENCE

ACCENTURE | Application Development Associate
Aug 2016 – May 2017 | Bangalore, KA, India
Technologies: Java, JavaScript, Angular JS, JQuery, Shell Scripting, Python, Maven, PL/SQL, RESTFul web services
Performed enhancements and bug fixes in the Cisco's Partner Program Platform (PPP) application suite. Designed scripts for automated reporting of product data using Python and Shell scripting, drastically reduced the time needed for generating reports previously done manually.

PROJECTS AND INTERNSHIP

LARGE SCALE DEEP NETWORKS ON THE CLOUD | Graduate Course Project
Sept 2017 – Present | San Jose State University, CA
In this project, we investigate modeling deep neural networks on the cloud. We used the distributed configuration of TensorFlow in Python on Google Cloud Machine Learning Engine to train a convolutional neural network (CNN) using the ImageNet dataset. Moreover, we intend fine-tune our CNN for better classification accuracy.

DEGRADED DOCUMENT IMAGE ANALYSIS TOWARDS A MULTILINGUAL OCR | Undergrad Major Project
Jul 2015 – Apr 2016 | IIEST Shibpur, India
This project provides the details of the technique used to develop a Document Analysis System for Multilingual OCR. Worked on improving off line character recognition of handwritten text, for indic scripts like Devanagari, Bangala.

OPINION MINING AND ASPECT LEVEL SENTIMENT ANALYSIS OF HINDI LANGUAGE | Undergrad Research Internship
May 2015 – Jul 2016 | IIT Patna, India
Incorporated automatic feature selection for extraction and classification based on Particle Swarm Optimization (PSO). Used Conditional Random Field (CRF) and Support Vector Machine (SVM) for aspect term extraction and sentiment classification. Supervisor : Dr Asif Ekbal, Associate Professor, IIT Patna

PUBLICATION

FRACTAL IMAGE COMPRESSION USING UPPER BOUND ON SCALING PARAMETER | Journal article.
Elsevier Journal - Chaos, Solitons & Fractals, 2017, In press
Swalpa Kumar Ray, **Siddharth Kumar** , B. Chanda, B. B. Chaudhuri and S. Banerjee

CERTIFICATIONS

NEURAL NETWORKS AND DEEP LEARNING By Stanford University on Coursera.
MACHINE LEARNING By Stanford University on Coursera.
THE DATA SCIENTIST'S TOOLBOX by John Hopkins University on Coursera.

EXTRA-CURRICULARS

- Member of IDEAS Club at SJSU, September 2017 - Present.
- Contributed in the development of the IIEST tech-fest website, INSTRUO15.
- Former member of the Robodarshan, the robotics club at IIEST, Shibpur.