SAHIL M. MODAK

Graduate Student at University of Southern California

(323)-690-6474
smodak@usc.edu
github.com/sahilmodak1
linkedin.com/in/sahilmodak

EDUCATION

University of Southern California **GPA: 3.61**
Master's in Computer Science *Aug'16-May'18*

Courses: Analysis of Algorithm, Artificial Intelligence, Natural Language Processing, Machine Learning, Information Retrieval and Web Search Engines, Databases

University of Mumbai **GPA: 3.73**
Bachelor's in Computer Engineering *Aug'12-Jun'16*
Recipient of the JRD Tata Scholarship for full tuition for 1st and 2nd year of undergraduate program

SKILLS

Programming Languages: Java, C
Scripting Languages: Python
Web Tech: HTML, CSS, JavaScript, PHP, ASP.NET
Databases: MySQL, PostgreSQL, SQLite, TinkerPop
IDE: NetBeans, Eclipse, PyCharm, Visual Studio

WORK EXPERIENCE

WG2B LLC **Los Angeles, CA**
Software Developer Intern *Jun'17 – Aug'17*
Project: Jibo for Alzheimer's Patients
Skills: Java, Python, Api.ai
- Worked closely with the core development team for interfacing natural language processing capabilities in Jibo, a robot, programmed as a care taker for Alzheimer's patients.
- Designed and developed an agent with several intents including time, weather, alarms, add/modify/delete events, get schedule and get event details, called upon by Jibo, for requests in natural language.

Univ. of Southern California **Los Angeles, CA**
Web Developer *Feb'17 – Dec'17*
Project: Web App for Data Collection
Skills: HTML, CSS, JavaScript, Illume Manager
- Designing block adaptive tests for data collection as a part of Project Talent Aging Study (PTAS) in collaboration with the American Institute of Research (AIR).
- Programmed various cognitive measures including abstract reasoning, spatial visualization, number series, etc. to create a model of relationship between early life factors and later life cognitive impairment of a nationally representative sample of adults.

PROJECTS

Voice Driven Dynamic Generation of Web Pages
Published in IEEE Xplore ***ISBN: 978-1-5090-3291-4***
Skills: Java, SQLite, Google Speech API
- Developed an application by incorporating natural language as a means for human computer interaction to design web pages
- This system would listen to the natural language commands, analyze them, understand the given task, extract all that is important and on that basis automatically generate a live output on screen

Hidden Markov Model: part-of-speech tagger
Skills: Python
- Created a part of speech tagger using python to tag unknown words in the Catalan corpus.
- Implemented a Hidden Markov Model for training and identifying the appropriate tags for each word in the test set, by calculating transmission and emission probabilities using the Viterbi algorithm. Accuracy: 94%.

Hotel Reviews Classifier
Skills: Python
- Designed a classifier using python to classify a user's hotel reviews on Yelp.
- Analyzed existing user reviews on Yelp for training and implemented a Naïve Bayes classifier to classify new reviews as truthful or deceptive as well as positive or negative. Accuracy: 93%.

Blood Donation Agent System
Skills: ASP.NET, Microsoft SQL Server
- Created & administered a full-scale website for blood donation in Visual Studio using ASP.NET and Microsoft SQL server database
- Designed and implemented part of the system's interface using Photoshop and created the programs for extracting, updating and processing of the data.

Goods Transportation Manager System
Skills: Java, SQLite
- Developed a software for managing transportation of goods using Java and NetBeans
- Implemented functionalities to accept orders, generate bills, track and cancel orders. The accept order functionality was managed by keeping track of the space available to store new goods