Sudhindra Sajjalguddam

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Education

BITS-Pilani, K.K Birla Goa Campus	**Goa, India**
B.E (Hons) Computer Science, Engineering	*2013–2017*
CGPA: 7.71/10	
FIITJEE	**Hyderabad, India**
XII std, SSC Board	*2013*
Perventage: 96.3%	
Kendriya Vidyalaya	**Hospet, India**
X std, CBSE Board	*2011*
CGPA: 10.0/10.0	

Work Experience

Landmark IT	**Hyderabad**
Summer Intern	*May 2015–July 2015*

- Worked on the Design and Development Team for Grabon.
- UI/UX Design for a US based startup Sellers Commerce.
- Built a web scraping app to look for potential customers.
- Was a part of the Market Analysis team to develop business strategies to increase customer reach.

Projects

Machine Learning | Transfer Learning in Neural Networks

Guide: Mr. Tirtharaj Dash, CS/IS Dept. BITS-Goa

- Worked with Vishnu C.R to implement the concept of Transfer Learning in a multi-layer neural network. We proposed a novel method to take care of losses of data in inputs for classification problems and instead use a certain substitution for the same.

Machine Learning | Semi-Supervised clustering of web pages in ELM feature space

Guide: Mr. Rajendra Roul, CS/IS Dept. BITS-Goa

- Worked with Vishnu C.R, Rajat Agarwal and Pranav Rai to cluster the labeled and unlabeled data sets which were extracted from the ELM (Extreme Learning Machines) feature space using Semi-Supervised K-Means. The clusters will then be assigned a label using cluster assumption.

Machine Learning | Safety index of an area in a city based on tweets and news articles

Guide: Mr. Sheikh Aman Alam, Code Advocate at Twitter India

- The project was aimed at creating an application to gauge the safety index of an area in a particular city. Tweets are streamed into the system using the Twitter streaming API and analysed using Machine Learning Concepts.It ranks tweets based on their accuracy and authenticity while also keeping in mind the recency of events.

Python Development | A web scraping app in Python
Guide: Mr. Satvik G., Marketing and Business Dev Head at Landmark IT

- Developed a web scraping app in Python during my internship at Landmark IT. The app crawls through the web looking for potential customers or dealers who would benefit from the company's E-Commerce services.

Machine Learning | Identifying bots from human users on an online bidding site
Guide: Mrs. Aruna Govada, CS/IS Dept. BITS-Goa

- A python program to identify bots and human users on an online bidding site. The program analyses bidding patterns and purchased data to classify the users into bots and humans. The program was built on PySpark.

Embedded Systems | Remote surveillance system with object tracking and motion detection
Guide: Prof. Neena Goveas, CS/IS Dept. BITS-Goa

- Built a remote surveillance system using a RasPi which detects intrusion and also tracks the object once any motion is detected. It sends the video clip over Gmail alerting the user during any event.

Machine Learning | Duplicate document detection using Latent Semantic Indexing
Guide: Mr. Rajendra Roul, CS/IS Dept. BITS-Goa

- Worked with Vishnu CR, Rajat Agarwal, Pranav Rai to combat the problem of Duplicate Document Detection using the Latent Semantic Approach. I developed the code for LSI.

Java app development | A Java web app for SPREE
Guide: Mr. T.S.R.K Prasad, CS/IS Dept. BITS-Goa

- Built a java based web app which manages events, fixtures, scores and notifies participants during the campus sports fest SPREE.

Teaching/Professional Assistantship

Teaching Assistant of Object Oriented Programming (CSF213) course at BITS Pilani, Goa.

Teaching Assistant of Computer Programming (CSF111) course at BITS Pilani, Goa.

Technical Skills

Languages: C, C++, Python, Java, SQL, JS, HTML5, CSS3, Matlab, LaTeX, Verilog, Assembly.

Tools: Hadoop MapReduce, PySpark, Matlab, Proteus, VisualSim, Visual Paradigm, Wireshark.

Methods: Artificial Neural Networks, SVMs, CVMs, Latent Semantic Indexing (LSI), Random Forests, Gradient Boosted Trees, ELM, Clustering (supervised, unsupervised and semi-supervised).

Libraries: Scikit-Learn, Twitter API (Streaming and REST), few Google APIs (Maps, OAuth 2.0, Gmail), SparkML, NLTK (Natural Language Toolkit), Python ELM.

Operating Systems: Linux, Windows

Achievements and Awards

- Kishore Vaigyanik Protsaha Yojana (KVPY) Fellow 2013.
- CBSE Board Topper Award for securing a CGPA of 10/10.
- Secured 2nd place in RHoK (Random Hacks of Kindness) Hackathon for developing an app to gauge the safety index of a city.

Communication Skills

○ English [Full Professional Proficiency]

○ Hindi, Kannada, Telugu [Native, Bilingual Proficiency]

○ French, Sanskrit [Limited Working Proficiency]

Positions of Responsibility

○ Nirmaan Organization Goa Chapter - PR Head (2015-2016).

○ SPREE '16 - Chief web and graphic designer for the annual Sports Fest of BITS-Pilani Goa (2015-2016).

○ Nirmaan Organization Goa Chapter - Project Leader for Teach Zari Project (2014-2015)

Interests and Extra Curricular Activities

○ Textual Analysis of Social Media.

○ Kaggle Competitions.

○ Worked with several startups as a freelance web and graphic designer.

○ Represented the North Karnataka cluster in the state level badminton tournament. Our cluster secured the first place in the league games.

○ Tennis, Badminton, Cricket, Quizzing, Aviation.