

Sandesh Swamy

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GitHub – <https://www.github.com/SandeshS>

EDUCATION

The Ohio State University, Columbus, OH

Overall GPA (4.00 Scale): **3.72**

M.S. Computer Science, May, 2017

[**Coursework:** Advanced Operating Systems, Data Mining, Computational Linguistics, Algorithms, Speech and Language Processing, Artificial Intelligence]

R. V. College of Engineering, India

Overall GPA (10.00 Scale): **9.37**

B.E. Computer Science and Engineering, May, 2013

TECHNICAL SKILLS

- **Languages:** Java, Python, C, C++, Android, JavaScript, R, PHP, C#
- **Databases and IDEs:** MySQL, Eclipse, Visual Studio, R-Studio, Android Studio
- **Tools:** GitHub

WORK EXPERIENCE

Cisco Systems, Bangalore, Karnataka, India, Software Engineer

Aug '13 - Jul '15

- Products worked on – Green Apple compact switch, Connected Lighting (Internet of Things).
- Worked on LED code, USB console driver code and Silent roll code as a part of the core member of Green Apple India team.
- Implemented the command line parsing for the initial Connected Lighting commands.

Indian Institute of Science, Bangalore, Karnataka, India, Intern

Jul '11 - Sept '11

- Microsoft TTS SAPI Wrapper - Worked towards synchronizing Microsoft's TTS with that of IISc which was the first step in creating the screen reader experience for Indic languages.
- Indic text on Android devices - Collaborated with Harfbuzz (shaping engine) to understand how shaping of fonts work on mobile platforms and ensured that Indic script was presented in right form.

ACADEMIC PROJECTS

Naïve Bayes Classifier for Text Data, Python, Linguistics

Oct '15 - Nov '15

- Goal of the project was to predict whether the response to a query was an agreement or disagreement
- Implemented a simple Naïve Bayes classifier which was able to predict the nature of the response
- Achieved an accuracy of ~60%

Classification and Clustering of Large Datasets Python, Data Mining

Sept '15 - Nov '15

- Analyzed census, income and wine datasets and carried out data cleaning and data normalization
- Implemented kNN classifier and k-means clustering which was able to predict the class variable
- Achieved an accuracy of ~72% with the kNN classifier

Efficient Information Retrieval using Crawling, Indexing and Ranking, Java

Sept '15 - Nov '15

- Collaborated in a team to retrieve search results relevant to a user's query from a given set of documents
- Implemented the crawler module which served as a tool to gather documents from varied fields

ADDITIONAL EXPERIENCE

- **Graduate Teaching Assistant** for 'Introduction to programming in C++' course for Spring '16 term, OSU.
- **ECSG Hackathon**, Cisco Systems (India and USA), 2014
Member of the winning team for demonstrating the idea – 'Cloud based troubleshooting'
- **Cisco 1NS Hackathon**, Cisco Systems (India), 2014
Member of the 'Crowd favorite idea' award winning team for the idea – 'Connected Home'
- Designed a **Time Table Management** application using MySQL, PHP and JavaScript
- **Windows 8 Hackathon**, Microsoft (India), 2012
Part of the 2 member team. App idea (Tech-know-logy) was among the 'Top 25' apps at the event
- Designed an auto-committer using Python to facilitate easy double commits at Cisco, 2015
- **(Ongoing project)** Sentiment analysis on 25000 IMDB movie reviews using Naïve Bayes and Perceptron algorithms.