

Arghya Bhattacharya

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Education

Bachelor of Technology, Computer Science *3rd Year ongoing*
M.S by Research, Computational Linguistics *2018 ongoing*
International Institute of Information Technology, Hyderabad, India

Birla High School [link](#) *2016 Graduate*

Experience

Mentor at Google Code-In *Present*

- GCI mentor for the organization Apertium

Research Intern [ITC INFOTECH](#) *June '17*

- Worked with Deep Learning frameworks
- Developed an independent OCR

Major Projects

Principal Component Analysis and Eigenfaces *Statistical Methods in AI under Dr. C V Jawahar* *Present*

- Performed principal component analysis of images
- Trained a Naive bayes classifier using train images and then predicted the labels of test images.

Grammatical Error Correction *Natural Language Processing under Dr. Manish Srivastava* *Present*

- Implemented Naive Bayes for detection of grammatical errors in sentences

Part Of Speech Tagger *Natural Language Processing under Dr. Manish Srivastava* *Present*

- Implemented POS tagger using Hidden Markov Model

Tokenizer and Spelling Corrector *Natural Language Processing under Dr. Manish Srivastava* *Present*

- Developed a tokenizer and subsequently created the N-grams language model
- Implemented Good turing and Backoff interpolation
- Used Edit distance method to implement spelling corrector

Apertium + Python [here](#) *May '18*

- Apertium + Python makes Apertium's functionality available in a scripting language
- Apertium + Python also achieves cross-platform compatibility

Ultimate Tic-Tac-Toe bot *Artificial Intelligence under Dr. Pravin Paruchuri* *Mar '17*

- Developed a tic-tac-toe bot using minimax algorithm and alpha-beta pruning

Pacman-OpenGL *Graphics Course under Dr. Avinash Sharma* *Mar '17*

- Developed a modified graphic version of the simple pacman game using OpenGL

Rush the Game:WebGL *Graphics Course under Dr. Avinash Sharma* *Mar '17*

- Developed a game using WebGL as a part of my university assignment

Linux Shell *Operating Systems Course Project under Dr. P.K. Reddy* *Sept '16*

- A Bash like shell for Linux, with support for piping and redirection, written in C.

Technical Skills

Programming Languages : C, C++, Python, Assembly (MIPS), Bash Scripting (Basic)

Machine Learning : TensorFlow, SciPy, ScikitLearn, Anaconda

Web : JavaScript, jQuery, HTML, CSS, Django

Database : MySQL, BaseX (XQuery, Basic), EER Modelling

Tools : Git, Vim, Atom, Sublime

Operating Systems : Ubuntu(Linux), Windows, Mac OSX

Achievements

1st in Microsoft and NASSCOM Hackathon [Newspaper article](#) *2016*

Positions of Responsibility

- Founder of an NGO called "Khelar Chale" along with my mother.
- Vice Captain in School
- Sports Secretary in High School
- Sports Representative for Vayu House (Representing 1/4 of total college strength).