

# ACHYUDH RAM

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## EDUCATION

**Birla Institute of Technology & Science, Pilani**

**B.E. (Hons.), Computer Science**, *Expected:* August 2018

- GPA: 9.66/10.0 and Major GPA: 9.73/10.0

**M.Sc. (Hons.), Economics**, *Expected:* August 2018

- Major GPA: 10.0/10.0

## WORK EXPERIENCE

**Software Developer Intern, Intuit Inc.**

*May '17 – Jul '17*

- Developed a data engine with parallel query evaluation for layout-based database retrieval and a reports engine to provide performance insights for businesses
- Won HackAttack 2017 by building *Foresight*, an Android app that uses object detection and realtime databases to help the differently-abled navigate better

## RESEARCH EXPERIENCE

**Visiting Scholar, University of Waterloo**

*Jan '18 – May '18*

- Worked with Prof. Mei Nagappan on the empirical modeling of sentiments in GitHub Pull Request discussions as a part of the THEMIS.COG project

**Visiting Student, Delft University of Technology (TU Delft)**

*Aug '17 – Dec '17*

- Worked with Prof. Alberto Bacchelli on assessing the reviewability of code changes and automating the evaluation of GitHub Pull Requests

## TEACHING EXPERIENCE

**Teaching Assistant, BITS Pilani**

*Jan '17 – May '17*

- BITS F312 - Neural Networks & Fuzzy Logic
- CS F211 - Data Structures & Algorithms

## PROJECTS

**Detecting inconsistencies between Python code and comments**

*Sep '17 – Nov '17*

Advisers: Dr. A. Bacchelli, L. Pascarella

GitHub: [achyudhk/PyFunc-Signature-Parser](https://github.com/achyudhk/PyFunc-Signature-Parser)

**Analysis framework for decoding online developer communities**

*Dec '15 – May '17*

Adviser: Prasad Talasila

GitHub: [achyudhk/Mailing-List-Network-Analyzer](https://github.com/achyudhk/Mailing-List-Network-Analyzer)

**Fitness-aware brokering of hosted containerized environments**

*Jan '17 – May '17*

Adviser: Dr. Santonu Sarkar

GitHub: [achyudhk/Fitness-Aware-Container-Brokering](https://github.com/achyudhk/Fitness-Aware-Container-Brokering)

**Novel feature selection using Fuzzy C-Means clustering**

*Feb '17 – Apr '17*

Adviser: Dr. Rajendra Roul

GitHub: [achyudhk/FCM-Feature-Selection](https://github.com/achyudhk/FCM-Feature-Selection)

**Video translation of American Sign Language gestures**

*Nov '16 – Dec '16*

Machine Learning Course Project

GitHub: [achyudhk/Sign-Language-Recognition](https://github.com/achyudhk/Sign-Language-Recognition)

**Identifying the trends in Indian Legislative issues using NLP**

*Aug '16 – Dec '16*

Adviser: Dr. Anoop Kumar

GitHub: [achyudhk/Parliamentary-Debate-NLP](https://github.com/achyudhk/Parliamentary-Debate-NLP)

**Miscellaneous Projects**

- Feed-forward Neural Network library using computational gate approach supporting multiple optimizers, common activation and loss functions
- Implementation of state of the art Deep Learning papers on Google SVHN and MNIST datasets
- Implementation of machine learning algorithms like Support Vector Machines, Principal Component Analysis, K-means Clustering, Fuzzy C-means Clustering in Python

## SKILL SET

**Languages**

C, C++, Python, Java, JavaScript, BASH, SQL, HTML, CSS

**Frameworks**

Amazon Web Services, Google Cloud Platform, Firebase, Android Dev, Docker, Scikit-Learn, Matplotlib, NLTK, Keras, NetworkX, Flask, Scikit-Image, Chart.js

## TALKS

**Google Developer Group, Goa**

- Leveraging the power of Virtualization, Docker and the Cloud

*Apr '17*