

Abhishek Yadav

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EDUCATION

IIT GUWAHATI

B TECH IN COMPUTER SCIENCE

Graduated in June 2018

Cum. GPA: 8.82

CENTRAL ACADEMY SCHOOL

Grad. in May 2014 | Kota, India

Senior Secondary | CBSE Board

91% in 12th grade

THE RAJASTHAN SCHOOL

Grad. in May 2012 | Kotputli, India

Secondary | CBSE Board

10.0 CGPA in 10th grade

COURSEWORK

UNDERGRADUATE

- Computer Vision Using Deep Learning
- Information Retrieval
- Data Structures & Algorithms + Practicum
- Operating System + Practicum
- Databases + Practicum
- Compilers + Practicum
- Networks + Practicum
- Probability Theory
- Discrete Mathematics
- Linear Algebra

SKILLS

PROGRAMMING

Know-How:

- C • C++ • Python • PHP • HTML
- TensorFlow • Keras • Bootstrap

Familiar:

- MySQL • MongoDB • Neo4j
- Linux • Shell • Haskell

ACHIEVEMENTS

- Qualified for **ACM ICPC Amritapuri Regionals 2016-2017** and secured a rank of **90** among 400+ teams.
- Top performer in various competitive coding platforms like **CodeChef**, **HackerRank**, etc.
- Qualified for finale of **Microsoft Build The Shield, 2016** and secured **8th** rank .
- Secured a **rank of 685** among 1M+ students in **IIT-JEE 2014** .
- Received the **KVPY Research Fellowship, 2014** by securing a **rank of 149** .

EXPERIENCE

MICROSOFT INDIA | SOFTWARE ENGINEERING INTERN

May 2017 – July 2017 | Bangalore, India

- Worked on the **prediction of build test cases** that might fail an actual build if the given Pull Request is merged with the master code base.

PROJECTS

RAIN STREAK REMOVAL FROM SINGLE IMAGE

Guide: Dr. Arijit Sur

- Tried exploiting the **frequency domain of an image** in order to remove the rain streaks from a single image using **Deep ConvNets** .

UNDER WATER SINGLE IMAGE ENHANCEMENT

Guide: Dr. Arijit Sur

- Modelled the underwater image as a convex combination of clean image and global background light. Predicted the medium transmission map using **Deep ConvNets** to remove the haziness in the image.

CROSS DOMAIN SENTIMENT CLASSIFICATION

Guide: Dr. Sanasam Ranbir Singh

- Used **transfer learning and deep ConvNets** to learn cross domain specific features from single source domain and multiple source domain in order to adapt the classifier for target domain.

SQL QUERY PARSER

Guide: Dr. Arnab Sarkar

- Made a **recursive descent parser** in C++ for the **SQL Query** and displayed the syntax tree corresponding to syntactically correct query.

CLIENT-SERVER APPLICATION

Guide: Dr. T. Venkatesh

- Made a simple client-server application for **banking system** which can be used for checking balance, mini statement, crediting and debiting amount.

SEARCH ENGINE FOR IITG INTRANET

Guide: Prof. Santosh Biswas

- Made a generic search engine for intranet website of IIT Guwahati with various options such as image search, form search, etc. using Whoosh library.

OTHER PROJECTS

- Made a **classifier for handwritten digit recognition** to learn **TensorFlow** .
- Made a **compiler for subset of C language** using **Bison and Flex**.
- Developed a **video search engine** to understand the difference between relational and non relational databases. **Used MySQL, MongoDB, and Neo4j** .
- Developed a **web app for IITG Hospital** to automate its working.
- Developed a **file sharing system** to be used over institute's network.
- Wrote a shell script for **adding/updating copyrights** to various file extensions.

EXTRA ACADEMIC ACTIVITY

- I was an **Undergraduate Teaching Assistant** for "Introduction to Computing" course as part of Student Welfare Committee.
- Conducted computer science lectures for **Placement Preparation, 2017** .