

Shantanu Acharya

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AREAS OF INTEREST

Machine Learning
Computer Vision
Natural Language Processing
Full Stack Development

EDUCATION

NIT MIZORAM

B.TECH IN COMPUTER SCIENCE AND ENGINEERING

Expected June 2019 | Aizawl, India
CGPA: 9.60/10.0 | Department Topper

SPRING DALE COLLEGE

HIGHER SECONDARY EXAMINATION

Grad. May 2014 | Indira Nagar,
Lucknow, India
Grade: 91.80%

SPRING DALE COLLEGE

HIGH SCHOOL

Grad. May 2012 | Indira Nagar,
Lucknow, India
Grade: 91.40%

LINKS

Github: [shan18](#)
LinkedIn: [shanacharya](#)

SKILLS

PROGRAMMING LANGUAGES

Proficient:

Python • C

Familiar:

Java, C++, Javascript, \LaTeX MySQL,
Markdown

TOOLS/Frameworks

Django, Bootstrap, ReactJs, git,
Tensorflow, Amazon Web Services,
Heroku, Android Studio

CONFERENCES

SciPy INDIA 2015

Conference on Python for Scientific
Computing. FOSSEE, IIT Bombay

EXPERIENCE

UNIVERSITÄT HAMBURG | SUMMER RESEARCH INTERN | [GITHUB](#)

June 2018 – August, 2018 | Hamburg, Germany

- Created a model to improve an existing taxonomy using distributional semantics.
- Devised a clustering mechanism to cluster nodes in the taxonomy using similarity scores calculated with the help of different word embeddings.
- The model achieved state-of-the-art results on the SemEval-2016 Task13 for the English language with significant improvements over previous methods.
- **Tools:** Python, NetworkX.

IIT BOMBAY | SUMMER ENGINEERING INTERN | [GITHUB](#)

June 2017 – July 2017 | Mumbai, India

- Improved efficiency and reliability of the Single Board Heating System (SBHS) Virtual Lab System.
- Developed a mathematical model simulation for the SBHS.
- Integrated an online quiz taking interface called yaksh.
- Implemented a centralized database in order to prevent data inconsistency.
- **Tools:** Python, Django, Scilab, Apache.

PROJECTS

STOCK BRIDGE | STOCK MARKET SIMULATOR | [GITHUB](#) | [WEBSITE](#)

Apr 2018

- Built the entire user-company transaction system from scratch.
- Developed an automated system for fluctuating the stock prices.
- Devised a tiebreaker mechanism which uses the concept of coefficient of variation for ranking the users with same net worth in the leaderboard.
- Constructed a Bank model for the users to issue loan from and deduct interest from their loan amount accordingly.
- Extensive usage of django signals, model managers and custom querysets.
- **Tools:** Python, Django, Django REST Framework, chart.js, Bootstrap v4.
- **Services:** Amazon Web Services, Heroku, sendgrid.

CODE WARRIOR | ONLINE JUDGE PLATFORM | [GITHUB](#) | [WEBSITE](#)

Feb 2018 – Mar 2018

- Built the entire compilation, execution and user submission evaluation module from scratch.
- Designed the platform to support following four languages: C, C++, Python 2, Python 3.
- Constructed a tiebreaker mechanism which uses user submission execution time for ranking users with the same score in the leaderboard.
- **Tools:** Python, Django, Bootstrap v4.
- **Services:** Amazon Web Services, sendgrid.

ACHIEVEMENTS

SCHOLASTIC

DAAD-WISE SCHOLARSHIP

Selected for Summer Research Internship at Germany in 2018

MITACS SCHOLARSHIP

Selected for Summer Research Internship at Canada in 2018

10/10 GRADE

During 5th Semester at NIT Mizoram

TOEFL

Secured 102 marks out of 120

EXTRA-CURRICULAR

JOINT SECRETARY

2018

At Morphosis, the annual technical fest of NIT Mizoram

SCHOOL CAPTAIN

2013

Head of the Student Council at Spring Dale College

BASKETBALL TOURNAMENT

WINNERS

2013

Zonal Basketball Championship Tournament at Lucknow, U.P.

PROJECTS (CONTINUED.)

KART | E-COMMERCE WEBSITE | [GITHUB](#) | [WEBSITE](#)

Dec 2017 – Jan 2018

- Built the backend entirely on Django. Utilized jQuery to introduce asynchronicity to the website.
- Devised the functionality to sell digital items by storing data in AWS S3 Storage.
- Rendered the order summary as a PDF and send it to user after a successful transaction.
- **Tools:** Python, Django, Bootstrap v4, jQuery, Ajax, chart.js, jsrender.
- **Services:** stripe, mailchimp, Amazon Web Services, heroku, sendgrid.

AUTORANKING AMAZON REVIEWS | MACHINE LEARNING | NATURAL LANGUAGE PROCESSING | [GITHUB](#)

Oct 2017

- Ranking reviews on Amazon according to their helpfulness score.
- The problem was modeled as a regression problem. The performance was evaluated by using the coefficient of determination and rank correlation.
- Predictions were made based on various categories of features of the review text, and other metadata associated with the review, with the purpose of generating a rank for a given list of reviews.
- **Tools:** Python, Numpy, Pandas, textblob, scikit-learn.

MORPHOSIS | ANDROID | [GITHUB](#) | [GOOGLE PLAY STORE](#)

Mar 2017 – Apr 2017 | Aizawl, Mizoram

- Created the android app for the annual technical fest of NIT Mizoram.
- The app contains the information of all the events which are to be conducted during the technical fest.
- Developed a game called Scooby Dooby Doo within the app.
- **Tools:** Java, Android Studio, Firebase.

COURSEWORK

UNDERGRADUATE

Algorithms & Data Structures, Operating Systems, Database Management System, Computer Networks, Discrete Mathematics, Computer Graphics, Numerical Methods and Probability Theory, Computer Organization and Architecture, Theory of Computation, System Programming, Linear Algebra

ONLINE/MOOC

• DEEP LEARNING SPECIALIZATION

Coursera | [deeplearning.ai](#) | 2018

5 course specialization. Topics: Neural Networks and Deep Learning, Improving Deep Neural Networks, Structuring Machine Learning Projects, Convolutional Neural Networks, Sequence Models

Grade: 100% on all 5 courses

• INTRODUCTION TO MACHINE LEARNING

Coursera | Prof. Andrew Ng, Stanford University | 2016

Grade: 96.9%