

Shantanu Acharya

shan.sacharya@gmail.com | [GitHub](#) | [LinkedIn](#) | [Website](#)

EDUCATION

NIT MIZORAM

B.TECH IN COMPUTER SCIENCE AND ENGINEERING

Grad. July 2019 | Aizawl, India

CGPA: 9.69/10.0

Gold Medalist

SPRING DALE COLLEGE

SR. SECONDARY SCHOOL

Grad. May 2014 | Indira Nagar,

Lucknow, India

Grade: 91.80%

SPRING DALE COLLEGE

SECONDARY SCHOOL

Grad. May 2012 | Indira Nagar,

Lucknow, India

Grade: 91.40%

SKILLS

PROGRAMMING LANGUAGES

Python, JavaScript, Bash, C, C++

TOOLS/Frameworks

Linux, PyTorch, TensorFlow, Keras, Django, ReactJS, Redux, jQuery, git, \LaTeX , MySQL

MOOCS

EXTENSIVE VISION AI

The School of AI | 2020

An exhaustive Deep Vision Program spread over three semester-style phases.

Awarded with the Certificate of Excellence for being one of the top performers in the program.

DEEP LEARNING SPECIALIZATION

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

5 course specialization.

Grade: 100% on all 5 courses

INTRODUCTION TO MACHINE LEARNING

Coursera | Stanford University | 2016

Grade: 96.9%

EXPERIENCE

SIMBO.AI | SENIOR ARTIFICIAL INTELLIGENCE ENGINEER

June 2019 – Present | Bengaluru, India

- Responsible for creating a state-of-the-art Speech-To-Text system in the medical domain.
- Worked on projects spanning a variety of domains such as Deep Learning, Full Stack Development and Linux Server Administration where the responsibility for the complete end-to-end project pipeline was given.

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

June 2018 – August, 2018 | Hamburg, Germany

- Developed a model to improve an existing taxonomy using distributional semantics.
- Ensured the model to achieve state-of-the-art results for English language with significant improvements over existing methods.
- **Tools:** Python

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

June 2017 – July 2017 | Mumbai, India

- Developed a virtual simulation for the Single Board Heating System (SBHS) which allows students from all over India to access sophisticated lab infrastructure online.
- **Tools:** Python, Django, Scilab, Apache.

PUBLICATIONS

TOPIC-BASED IMAGE CAPTION GENERATION

ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING (AJSE) | [PAPER](#)

Citation: (Dash, Acharya, Pakray, Das & Gelbukh, 3025-3034, 2020)

EVERY CHILD SHOULD HAVE PARENTS: A TAXONOMY REFINEMENT ALGORITHM BASED ON HYPERBOLIC TERM EMBEDDINGS

ASSOCIATION FOR COMPUTATIONAL LINGUISTICS (ACL) | [PAPER](#)

5th June 2019

Citation: (Aly, Acharya, Ossa, Köhn, Biemann & Panchenko, 4811-4817, 2019)

PROJECTS

FLASH | DEEP LEARNING & FULL-STACK | [GITHUB](#) | [WEBSITE](#)

Dec 2020 - Jan 2021

- Flash is an end-to-end Deep Learning platform that allows users to create, train, and deploy their own neural network models in a matter of minutes without writing a single line of code.
- **Tools:** Python, Pytorch, ReactJS, Redux, AWS Lambda, AWS EC2, AWS S3.

TENSORNET | DEEP LEARNING | [GITHUB](#) | [PYPI](#)

Mar 2020 - Jan 2021

- Designed a high-level open-source deep learning library on top of PyTorch to solve computer vision problems.
- **Tools:** Python, PyTorch, NumPy, OpenCV.

AWARDS & HONORS

SCHOLASTIC

GOLD MEDALIST - NIT MIZORAM

Graduated as the Gold Medalist for overall highest academic performance.

DAAD-WISE SCHOLARSHIP

For Research Internship at Germany

MITACS SCHOLARSHIP

For Research Internship at Canada

EXTRA-CURRICULAR

SECRETARY

2019

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.)

TOPIC BASED IMAGE CAPTIONING | DEEP LEARNING | [GITHUB](#)

Oct 2018 - May 2019

- Devised a novel image captioning model using CNNs and LSTMs trained on MSCOCO-2017 Dataset.
- Created a system where LSTMs were given additional information (topics) extracted from image captions using Latent Dirichlet Allocation (LDA).
- **Tools:** Python, Tensorflow, NLTK, OpenCV.

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

Apr 2018

- Created a virtual platform that enabled users to have an experience of trading in the real-world stock market.
- **Tools:** Python, Django, jQuery, Heroku, sendgrid.

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

Feb 2018 - Mar 2018

- Developed an online programming judge platform with support for languages C, C++, and Python.
- **Tools:** Python, Django, Amazon Web Services, PythonAnywhere, sendgrid.

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

Dec 2017 - Jan 2018

- Built an e-commerce platform with features like online payments, sending order receipt via email, selling digital items e.t.c.
- **Tools:** Python, Django, jQuery, Ajax, stripe, mailchimp, Amazon Web Services, Heroku, sendgrid.