

# NITIN CHOUDHARY

## Mathematics and Computing Major

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📍 India

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## EXPERIENCE

### Member of Technical Staff

#### Cohesity

📅 Aug 2020 – Present 📍 Pune, India

- Working as a member of Datapath Team, which deals with all filer operations in the data storage domain.
- Building tools for NAS migration and a planner which allows user to plan their migration based on insights from data.
- Exposure to full stack development, with Angular in UI and Go in backend.

### Google Summer of Code Developer

#### Sunpy (Open Astronomy)

📅 May 2017 – July 2017

- Wrote a full-fledged high-level JSOC Client, using drms package as its backend, to download astronomical data from JSOC servers.
- Wrote a full test-suite to cover the drms package, using pytest and different mock testing packages.

### Summer Research Intern

#### Naver Labs Europe

📅 May 2019 – July 2019 📍 Grenoble, France

- Worked on the problem of Layout Understanding of documents, with Restaurant Menus as the dataset, in order to translate it.
- Formulated the problem as a Graph classification and segmentation, using GraphCRF and custom Edge-conditioned convolution to achieve the desired results.

### Summer Research Intern

#### University of Alberta, Canada

📅 May 2018 – July 2018 📍 Edmonton, Canada

- Built a predictive model to detect Schizophrenia among patients from brain's 4D fMRI scans giving over 87% accuracy.
- Created an ensemble model to incorporate the feature knowledge from all the parcellations, in addition to applying 3D convolutions on ReHO data of fMRI scans.

### Python Developer Intern

#### Thinkerbell Labs

📅 Dec 2017 📍 Bangalore, India

- Worked on the source code of the company's flagship device Annie, which is a handy Braille tutor to bring learning and writing in reach of visually impaired people.
- Implemented connection of the device to the server using websockets so as to remotely monitor the device through an android or iOS device.

## EDUCATION

Indian Institute of Technology  
Kharagpur

### Int. MSc in Mathematics and Computing

📅 July 2015 – June 2020

- GPA: 8.1/10

## TECHNICAL SKILLS



## PROJECTS

### Contextual Emotion Detection in Text

- Built a model that would detect contextual emotion in a conversation between 2 people.
- Used attention and hierarchial attention models with Bi-LSTM units to capture the context.
- Used character level representation along with word embeddings to understand the conversation slangs and typos.
- Work selected for poster presentation at NAACL 2019, Minneapolis, USA.

### Accio Kindle Highlights

- Built a cross-platform electron app to automatically sync all the e-reader highlights to a dedicated folder on Google Drive.

### MaterialPlus Graphite Flakes Detector

- Built a Convolutional Neural Networks model, to identify between 5 different types of graphite flakes present in grey cast iron.
- Used both Tensorflow and Torch as independent platforms to implement the neural network problem.

## EXTRA CURRICULARS

### Kharagpur Open Source Society

- Served as Executive Head to the club, to promote love and use of open source in and around campus.
- Conducted Kharagpur Winter of Code, a program to introduce people to open-source development.
- Conducted Linux-install fest in the campus, to promote use of Linux as the preferred operating system.
- Regularly conducted Python Classes and Git workshop, to teach students the process of contributing to an open-source project.