

# Naman Jain

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## EDUCATION

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### Indian Institute of Technology Gandhinagar

Gandhinagar, IND

*Bachelor of Technology with Honours in Computer Science and Engineering, GPA: 8.4/10*

*Jul. 2016 – Aug 2020*

*Awards: Award for Outstanding Research (1 out of 180+ students)*

## WORK EXPERIENCE

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### Co-Founder, CTO

Apr. 2022 – Sept 2022

*Alby - Curate the best of the Internet*

*Bengaluru, IND*

- Led product and development
- Built an AI system which curates and ranks news articles
- Built a social media application using React Native and Firebase, used by 1500+ people
- Had to close down due to lack of funding

### Founder-In-Residence

Apr. 2022 – July 2022

*Entrepreneur First*

*Bengaluru, IND*

- Joined the 7th cohort with 3% acceptance rate to ideate and build a company

### Research Engineer | *Deep Learning, Sensor Calibration*

Aug. 20 – Mar 22

*Deepen AI*

*Hyderabad, IND*

- Developed deep learning models resulting in reduction of data labelling time by upto 40% and worked on innovative ways to calculate accurate sensor calibration
- Delivered end-to-end feature from literature review, algorithm exploration to integration with annotation and calibration tool
- Deployed systems on cloud and developed frontend UI using APIs and Javascript to access the models
- *Dataset*: Real-world traffic sequences recorded using vehicles' camera and LIDAR sensors
- *Deep learning projects*:
  - \* *2D Object detection*: Generating object pre-labels in 2D images (vehicles, traffic signs and pedestrians)
  - \* *Interactive segmentation*: Accurate 2D masks for objects with minimal human interaction cost
  - \* *Superpixel segmentation*: CNN based superpixels with dynamic resolution and edge-based loss
  - \* *Video classification*: Tracking lane change event of vehicles in long 2D sequences
  - \* *2D Occlusion detection*: Classifying objects based on the percentage of occlusion
  - \* *3D Path correction*: Correcting vehicle trajectory in LIDAR sequences for high quality labels
- *Calibration Projects*:
  - \* Loop-based multi-sensor calibration optimisation
  - \* LIDAR-Camera extrinsic calibration
  - \* Target based Multi-LIDAR calibration

## RESEARCH EXPERIENCE

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### Undergraduate Research (Data Science and ML)

*Publications and Posters*

- **Naman Jain**, and Mayank Singh. "TweetPap: A Dataset to Study the Social Media Discourse of Scientific Papers." Poster, **ACM/IEEE JCDL 2021**
  - \* Explored ways to account for the affect of social media discourse on research impact of scientific literature
  - \* Demonstrated web mining and data analytics skills to curate and process large-scale datasets
- Davinder Singh, **Naman Jain**, Pranjali Jain, Pratik Kayal, Sudhakar Kumawat, Nipun Batra "PlantDoc: A Dataset for Visual Plant Disease Detection." Short Paper, **ACM IKDD CoDS-COMAD 2020**
  - \* Curated dataset of 2,600 images to classify 17 plant diseases by leaf detection in real-life farm setting
  - \* Applied transfer learning to increase classification accuracy on farm images by ~40% from previous works
  - \* Developed mobile-application and deployed model using Tensorflow-Lite to classify disease in plant leaves
- Monarch Parmar, **Naman Jain**, Pranjali Jain, P Jayakrishna Sahit, Soham Pachpande, Shruti Singh and Mayank Singh. "NLPEXplorer: Exploring the Universe of NLP Papers." Demonstrations, **ECIR 2020**
  - \* Developed web-portal for indexing, searching, and visualizing NLP research papers to keep up with trends

- \* Applied NLP techniques (topic modelling, full-text based visualisation & generating citation graph) and web mining (curating NLP papers). Portal have had 4K+ recurring users post publication.
- **Naman Jain**, and Mayank Singh. “The Evolving Ecosystem of Predatory Journals: A Case Study in Indian Perspective.” Full Paper, **ICADL 2019**
  - \* Analysed 800+ journals to devise data-driven signals for flagging predatory scientific literature and show how predatory publishers are evolving and bypassing standard regulations
  - \* Learnt data mining to compile and process large-scale datasets. Results praised by education policymakers
- **Naman Jain**, Pranjali Jain, Pratik Kayal, Jayakrishna Sahit, Soham Pachpande, Jayesh Choudhary, Mayank Singh. “AgriBot: Agriculture Specific Question Answer System.” **3rd Best Paper Award** from of 300 submissions, Full Paper, **ICSTEMVG 2019**
  - \* Developed AI-chatbot for Indian farmers to give 24\*7 access to information about farming practices
  - \* Contributed in data preprocessing and similarity-based query retrieval algorithm powering the chatbot’s replies

## INTERNSHIP EXPERIENCE

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- Data Science Intern | Prof. Minsu Park** Mar. 2021 – Jul. 2021  
*New York University - Abu Dhabi Campus Remote*
- Reviewed literature in network theory and led discussions to finalise impactful research problem statement
  - Conducted experiments on social networks to verify friendship paradox’s presence and its influence in homophily networks and community-based social networks
- Machine Learning Intern** Jun. 2019 – Jul. 2019  
*Observe AI Bengaluru, IND*
- Developed active learning based (ALB) approach to predict temporal labels in customer service call transcripts
  - Engineered web-app to label phone calls by ALB method. Led to increase in annotator’s efficiency by >50%
- Data Science Intern | Prof. Sergio Moro** May 2018 – Jul. 2018  
*Information Systems Lab, ISCTE-University Institute of Lisbon Lisbon, PRT*
- Developed topic modelling approach to extract co-occurrence of tourism and tech keywords in 20K+ news articles
  - Analysis helped business opportunists and consultants to account for the resulting market gaps

## TECHNICAL SKILLS

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**Languages:** Python, C/C++, SQL, JavaScript, HTML/CSS  
**Frameworks and Tools:** PyTorch, Tensorflow, React, Node.js, Django, MongoDB, Python Data Science Stack

## TECHNICAL VOLUNTEER

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- Teaching Assistant | CS613: Natural Language Processing 2019**
- Mentored five groups of students in course projects. Three of them went ahead with publication
- Teaching Assistant | Short Course on Data Science and Analytics**
- Organiser | PyData Gandhinagar Meetup**
- Sub-Reviewer | Under Prof Minsu Park**

## HONORS

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Travel Grants (ECIR ’20, CoDS-COMAD ’20, ICADL ’19)  
 Country-wide topper in Physics and Chemistry in 2016 High School Examination (Overall grade in Top 1% percentile)  
 Top 1% percentile in Engineering Entrance Examination (JEE Mains and Advanced)  
 KVPY Fellow 2015 (~2% selection rate)

## EXTRA CURRICULARS

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- Founder & Secretary | Vinteo, Film Making Club of IIT Gandhinagar**  
 Made over 15 short films, started a hobby group which got instituted as club (3 to 30 people), participated in 5+ film festivals, conducted workshops on editing & direction and managed the club’s Youtube channel
- Core Committee Member | Amalthea ’17, Annual Technical Summit of IIT Gandhinagar**  
 Managed event expenses (approx. \$35,000), team of 120 people, D-Day operations and sales for Exhibition stalls