

# ADITYA KUMAR

[WWW.GITHUB.COM/ARCH-RAVEN](https://www.github.com/ARCH-RAVEN)

[WWW.KAGGLE.COM/ADITYAK80](https://www.kaggle.com/adityak80)

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## EDUCATION

<b>Indian Institute of Technology (BHU), Varanasi</b> IDD in Ceramic Engineering (Current CGPA: 8.05)	<b>July 2019– Current</b>
<b>Shivam International School, Patna, Bihar (Class 12 th)</b> Central Board Of Secondary Education (Percentage: 88%)	<b>2019</b>
<b>Sainik School Sujanpur Tira, Hamirpur ,HP (Class 10 th)</b> Central Board Of Secondary Education (CGPA: 10)	<b>2017</b>

## SKILLS AND INTERESTS

- **Languages:** Python · C
- **Areas of Interest:** Natural Language Processing · Generative Modeling · Data Science · Computer Vision
- **Technologies & Platforms:** · Pytorch · Keras · openCV · FastAI · Git · Linux Shell · Web Scraping

## PROJECTS

<b>Automated Headline and Sentiment Generation for multi-lingual and code-mixed data</b> <ul style="list-style-type: none"><li>• Built a binary classifier to identify tweets/articles belonging to Mobile-Tech theme</li><li>• Built an Aspect Based Sentiment Analysis model to extract sentiments associated with each individual brand mentioned in a tweet/article</li><li>• Exposure: TF-IDF · Transformers · mBERT · Subword Tokenizers · PyTorch</li></ul>	<b>March 2021</b>
<b>Automated License Plate Reader</b> <ul style="list-style-type: none"><li>• Noise removal, histogram equalization and perspective transform to account for irregularities in image</li><li>• Rule based character segmentation using contours and used a CNN classifier to identify labels for the segmented characters</li><li>• Exposure: openCV · CNN · Keras</li></ul>	<b>Apr 2021</b>
<b>Google Quest Challenge</b> <ul style="list-style-type: none"><li>• Built model to predict ratings for subjective aspects (like #question_asker_intent_understanding ) of question answering on StackExchange Q&amp;A pairs</li><li>• Used MLP on BERT-Embeddings, tried different schedulers and differential learning rates</li><li>• Exposure: Transformers · PyTorch · PyTorch Lightning</li></ul>	<b>February 2021</b>
<b>Simultaneous Multitasking Agent</b> <ul style="list-style-type: none"><li>• Conducted a sweep of experiments and explored the use of Deep Reinforcement Learning for simultaneous activity by robots in a group of four as part of Robotics Research Group (<a href="#">RoboReG</a>) IIT BHU</li><li>• open sourced the openai gym environment built with PyBullet simulator</li><li>• Exposure: Stable Baselines · Autoencoders · RL</li></ul>	<b>Dec 2020- Jan 2021</b>

## TECHNICAL EXPERIENCE

<b>Data Analysis Intern at Shot sports Analysis</b> <ul style="list-style-type: none"><li>• Wrote python scripts for Data Wrangling and pipelines</li><li>• Performed web scraping using bs4 and automated process using selenium</li></ul>	<b>10 Sep- 9 Nov 2020</b>
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## ACHIEVEMENTS / EXTRA CURRICULAR ACTIVITIES

<b>Inter IIT Tech Meet 2021</b> Represented the college in InterIIT Tech Meet 9.0 and our team bagged a <b>Silver Medal</b> in Bridgei2i's Automated Headline and Sentiment Generation <b>NLP</b> event	<b>March 2021</b>
<b>ShARE I-Batch presentation</b> Finished among <b>Top 4</b> teams in Asia Inter-College consulting presentation competition organized by ShARE org on the topic 'Can e-Learning help speed up education revolution in developing countries?'	<b>January 2021</b>
<b>Hult Prize Regional Finalists</b> Our team, The Scientists, bagged <b>3 rd position</b> in the campus round and presented our idea at Asia conference for the social entrepreneurship event organized by HULT prize foundation on the theme 'Food for Good'	<b>Dec 2020</b>
<b>Hobbies &amp; Interests:</b> Reading fiction novels & animations · Music · Basketball	