

Chirag C Dasannacharya

+91-7760391067 | chirag8cd@gmail.com | chiragcd.github.io | github.com/chiragcd

EDUCATION

Birla Institute of Technology and Science, Pilani <i>Bachelor of Engineering in Computer Science, Minor in Physics</i> CGPA (as of 5th semester) - Major - 9.54/10; Minor - 10/10	Rajasthan, India Ongoing - Aug 2018 – May 2022
National Public School, Indiranagar CBSE 12th Board Exam CBSE 10th Board Exam	Bangalore, India Score - 96.6% 2018 Score-10.0/10 2016

EXPERIENCE

Undergraduate Research Intern <i>Bhaskaracharya National Institute for Space Applications and Geo-informatics (BISAG-N)</i> <ul style="list-style-type: none">Completed an analysis of urban heat islands in Bangalore and LudhianaDeveloped an open-source python plugin for the QGIS geo-informatics software that estimates Land Surface Temperature (LST) from Landsat images, using numpy, GDAL, pyQgis, PyQt and moreDeveloped a tool to provide statistical metrics on temperature-related data in an area, using LST estimated from the plugin	May 2020 – July 2020 Gandhinagar, India
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PROJECTS

Blaze <i>Programming Languages, C</i> <ul style="list-style-type: none">Designed grammar for a programming language from scratchWrote a scanner and a parserWriting an interpreter for the language, in CImplemented functions and namespaces	June 2020 – Present
Graph Isomorphism <i>Graph Theory</i> <ul style="list-style-type: none">Studied and presented papers on random graph isomorphismImplementing papers to evaluate performance and explore improvementsModifying algorithms to increase reliability	August 2020 – Present
NR-GANs <i>Machine Learning, Python</i> <ul style="list-style-type: none">Did a literature review on noise-robust methods of image generationStudied and presented the paper on Noise Robust Generative Adversarial Networks (NR-GANs) by Takuhiro Kaneko and Tatsuya HaradaTrained the model and evaluated performanceAdded image visualizer to observe performance of partially trained modelsObserved performance of model on non-standard noise distributions	September 2020 – November 2020
GFS simulation <i>File Systems, C</i> <ul style="list-style-type: none">Simulated Google File System (GFS) using processes communicating through message queuesRan metadata server, chunk servers and clients independentlyImplemented shell interface on chunk servers	October 2020
QGIS Plugin <i>Software Development, Python</i> <ul style="list-style-type: none">Implemented an algorithm to calculate Land Surface Temperature (LST) from thermal and infrared imagesDesigned a cross platform GUI for the implementationIntegrated implementation and GUI with QGIS as a pluginProject done with the objective of analysing urban heat islands, as an intern at BISAG-N	May 2020 – July 2020

COMPETITIONS

International Linguistics Olympiad 2017 - Bronze Medal Winner <i>Won a bronze medal representing India at the 15th International Linguistics Olympiad held at Dublin, Ireland</i>	August 2017
International Linguistics Olympiad 2018 - Participant <i>Represented India at the 16th International Linguistics Olympiad held at Prague, Czechia</i>	July 2018

SCHOLARSHIPS

Institute Merit Scholarship

Mar 2020

Awarded to top 3% of students

COMPETITIVE EXAMS

Joint Entrance Exam (JEE) - Advanced 2018

May 2018

Rank - 1400 out of more than 150,000 candidates

Joint Entrance Exam (JEE) - Mains 2018

April 2018

Rank - 775 out of more than 1,000,000 candidates

TECHNICAL SKILLS

Programming Languages: Python, C, Java, Verilog HDL

Libraries: NumPy, Matplotlib, QT, pygame

EXTRA-CURRICULARS

ACM Student Chapter - Member

September 2018 - Present

Major Activities - organised Hour of Code session at local school, set recruitment question paper