

Shreyas Bapat

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EDUCATION

- **Indian Institute of Technology Mandi** Mandi, India
Bachelor of Technology in Electrical Engineering; CGPA: 7.51/10.0 Aug. 2016 – Present

PUBLICATIONS

- **Projecthiko 1.0 - The Voice and Internet Enabled Smart Home** IJETSR- ISSN 2394 3386
Author Volume 4, Issue 6 — June 2017
 - **Cost Enhancements:** Devised a very cheap and efficient way of making a home smart.
 - **Flask, Google Speech:** Used Flask and HTML, CSS to create a web interface for handling the resources in home. Flask is a python based framework that can provide a stable backend to websites. Also implemented the Google Speech API to access the voice inputs of the user.

EXPERIENCE

- **Poliastro - OpenAstronomy** Barcelona, Spain
Software Development Intern May 2018 - Present
 - **pypi release 0.10:** Worked for the 0.10 release of poliastro.
 - **Backends for Orbit Plotting:** Restructured the whole plotting module and created two different backends for plotting. One using plotly and the other using matplotlib.
 - **2D Interactive Plotting:** Created a class for 2D plotting using plotly. This created interactive 2D plotting for orbits.
- **Indian Institute of Technology Mandi** Mandi, India
Teaching Assistant Feb. 2018 - Jun. 2018
 - **Programming and Data Structures Practicum:** Helped students understand complex Data Structures and Algorithms. Cleared their doubts for DS implementations in C

PROJECTS

- **poliastro:** Open source python library for astrodynamics.
- **Intelligent Fabric Detection and Classification:** A Deep Learning Model to identify the fabric and classify it into different classes. Data Based Training.
- **Ayushman Bhava:** A smart medical vending machine with video conferencing with doctor, Payment gateway enabled for online payment. Deep Learning for Cash detection.
- **Exoplanet Detection:** A Machine Learning based prediction model which predicts the presense of Exoplanets on a star by the brightness data of that star over a long period of time.

PROGRAMMING SKILLS

- **Languages:** Python, C/C++, shell, NASM, Erlang, JavaScript, Dart(Flutter), MySQL
- **Web:** Flask, Dash, HTML5, CSS3, Materialize, JavaScript, Django
- **Markup:** \LaTeX , Markdown, ReStructured Text, YAML
- **Technologies and Libraries:** git, mercurial, PyCharm, plotly, mayavi, Tensorflow, Keras, numba JIT

PRESENTATIONS AND TALKS

- **Astronomy Code Camp - Nehru Planetarium, Delhi** New Delhi, India
Mentor and Presenter Jun. 2018
 - **Scientific Computing:** Introduction to various scientific computing packages such as poliastro, astropy, pyephem to the participants.
- **6th ICETSMI-2017** IETE, Delhi, India
Presenter in 6th International Conference on Eng. Tech., Science and Mngmt. Innovation Jun. 2017
 - **Paper Presentation:** Presented the paper titled, ProjectHiko1.0 - The Voice and Internet Enabled Smart Home at the conference.