

Devansh Batra

<https://devanshbatra.com>
devanshb.it.17@nsit.net.in | +91-8930485111

EDUCATION

NSIT, UNIVERSITY OF DELHI
B.E. IN INFORMATION TECHNOLOGY
Expected Mar 2021
Cum. GPA: 8.57

LINKS

Github:// [devanshbatra04](#)
LinkedIn:// [devanshbatra04](#)

RESEARCH

PREPRINTS

Batra, Devansh, et al. "RecipeDB: A Resource for Exploring Recipes." Available at SSRN 3482237 (2019).

UPCOMING PUBLICATIONS

Kalra, Jushaan, Batra, Devansh, Diwan, Nirav and Bagler, Ganesh. "Nutritional Profile Estimation in Cooking Recipes" Accepted at 36th IEEE International Conference on Data Engineering (2020).

Diwan, Nirav, Batra, Devansh and Bagler, Ganesh. "A Named Entity Based Approach to Model Recipes" Accepted at 36th IEEE International Conference on Data Engineering (2020).

ACHIEVEMENTS

Jun 2017 Top 0.5% in JEE'17
Jun 2018 ARES Rover Qualified ERC'18
2018-19 Won Multiple Hackathons
Mar 2019 Perfect Science Sore URC'19
May 2019 Secure Private AI Scholarship
Jun 2019 ARES Rover Qualified ERC'19

SKILLS

PROGRAMMING LANGUAGES

Over 10000 lines:

C++ • Javascript • Python

Over 5000 lines:

C • CSS • SQL • Ruby

Over 1000 lines:

Java • Shell • PHP • Solidity • Haskell

FRAMEWORKS

Proficient:

ExpressJS • Tensorflow • Flask • QT

Experienced:

Robot Operating System • Pytorch •

Django • Ruby On Rails • OpenCV

WORK EXPERIENCE

ORTHOGONAL RESEARCH LAB | UNDERGRADUATE RESEARCHER

October 2019 – Present | Supervised by Dr. Bradly Alicea

- Working on digital simulations of mobile diatoms using image processing
- Modeling developmental and biological processes using Braitenberg vehicles.

COMPLEX SYSTEMS LAB, IIIT DELHI | UNDERGRADUATE RESEARCHER

May 2019 – Present | Supervised by Dr. Ganesh Bagler

- Data curation and analysis of recipes, flavor molecules and disease associations.

MOZILLA | OPEN LEADER

Jan 2019 – May 2019

- Led open source development efforts on a cross platform clipboard sync app.
- Applied principles of Working Open as part of Mozillian Wizards Cohort.

INTEL INDEXER | FRONTEND LEAD, ML SCIENTIST

Jun 2018 – Jan 2019 | Berkeley, CA, USA (Remote)

- Developed a WebSocket infrastructure for seamless transfer of TBs of data.
- Organized complex financial, geolocation data streams in Elasticsearch.
- Created React, Grafana visualization clients for real time FinTech dashboards.

ARES ROBOTICS | SOFTWARE & AI DEPARTMENT LEAD

Aug 2018 – Present | New Delhi, India

- Working on the autonomous traversing capability for Mars Rover Prototype.
- Implementing stereo vision AI system to prepare real time depth maps.

CODING BLOCKS INDIA | TEACHING ASSISTANT

Jun 2018 – Jul 2018 | New Delhi, India

- Took doubt sessions, debug codes and graded assignments and projects.

OPEN SOURCE | CONTRIBUTOR

2018 – Present

- Collaborator at **W3C/ReSpec** - implemented features used across W3C specs.
- Contributing to **Google/CodeWorld** on Haskell parity and IDE features.

SELECTED PROJECTS

TRAFFIX | CCTV STREAM BASED TRAFFIC MANAGEMENT - PYTHON, JS

- Real time analysis of traffic light cams, **finished 1st / 500 at hackCBS**.
- Featured Vehicle Theft Recovery, Tracking, Ticketing, Traffic Light Sync.

SENTINEL | REMOTE CONNECTION AND ROOTKIT SCANNER - PYTHON

- GUI based cross-platform security SW under Min. of External Affairs.
- Winners at Smart India Hackathon** in complex problem category.

DRISHTI AI | MOBILE CAMERA BASED BLIND ASSISTANT - PYTHON, JAVA

- Android App and Chatbot for the blind, **3rd/120 at HackBVP**.
- Featured egocentric vision based navigation, cloud based image analysis.

ATOM | MARS ROVER PROTOTYPE - C++, PYTHON, EMBEDDED C

- Led the software team efforts, reaching IRC, URC and ERC finals.
- Re-implemented autonomous systems, cutting traversal time by 35%.