

Gunnika Batra

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Work Experience

INMAS, Defence Research and Development Organisation Research Intern	July 2020 to Present
Studying the influence of Dynamic Function Allocation on cognitive workload of an individual using signals from an EEG device.	
DPhi Data Science Content Development Intern	May 2020 to Present
Working towards building data culture and democratizing Data Science learning.	
SHEROES Data Analytics Intern	June 2019 to Aug. 2019
Created and analyzed metrics of the SHEROES platform and developed computer vision models to understand the user behaviour.	

Education

Udacity Deep Learning Nanodegree	Aug. 2019 to Jan. 2020
Bharati Vidyapeeth's College Of Engineering, New Delhi B.Tech - Information Technology : C.G.P.A - 8.9	Aug. 2017 to June 2021
Relevant coursework include Artificial Intelligence, Software Engineering, Data Structures, Object Oriented Programming	
Bal Bharati Public School, Pitampura	Apr. 2003 to Apr. 2017
Senior Secondary Education : Class 12: 93.5% , Class 10: C.G.P.A - 10	

Positions Of Responsibility

GitHub Campus Expert · GitHub	Mar. 2019 to Present
Mentor - TensorFlow · Google Code-in	Nov. 2019 to Jan. 2020
Lead · Women Techmakers BVP	May 2019 to July 2020
SHEROES Campus Lead · SHEROES	Dec. 2018 to July 2020
Web Executive · Developer Student Clubs by Google Developers BVP	May 2018 to May 2019

Projects

Reddit Flair Detector

- A web application to predict flair (tag) of any post on India Subreddit using Machine Learning Algorithms.
- The dataset has been created by scraping and pre-processing the subreddit data.
- The application, built using Flask and deployed on Heroku can be found live at [Reddit Flair Detector](#).

VoiceBox

- Recognition of hand gestures in 3D space using a single low-resolution camera for converting American Sign Language into any spoken language
- Implemented auto-suggestion and word completion to improve user experience

User Sign-Up Source Identification

- Identified the source of a user's profile picture on the SHEROES platform by categorization into 5 distinct classes
- Demonstrated a better understanding of the user base from different sign-up platforms
- Targeted users without genuine profile pictures to be sent alerts and push notifications

Dog Breed Prediction

- Determined an estimate of the canine's breed based on an input image of a dog
- Identified the resembling dog breed on being supplied with an image of a human
- Tested multiple methods for the architecture, including building it from scratch using a CNN and using VGG16 for transfer learning

TV Script Generator

- Automatically created Sienfield TV Scripts using RNN
- Generated a new, "fake" TV script, based on the patterns it recognized in the training data

Technical Skills

PROFICIENT: Python, Deep Learning, SQL, HTML, CSS
INTERMEDIATE: Machine Learning, Data Analysis, C++, C, PyTorch, Keras, OpenCV, Numpy, Pandas, Matplotlib
BASIC: JavaScript, Java

Honors and Awards

- Got accepted into the first-ever Google Research India AI Summer School.	Aug. 2020
- Secured 6th place in Facebook AI Hackathon, competing with more than 2100 participants internationally.	Mar. 2020
- Winner of the Paytm Build for India hackathon held at IIT Delhi, qualifying amongst 93 teams.	Jan. 2019
- Winner of the Amity Cyber Cup hackathon held at Amity University.	Jan. 2019
- Selected as one of the 235 developers worldwide to receive a scholarship for a 12-month Machine Learning training by DataCamp and 4-month Deep Learning Nanodegree by Udacity.	Jan. 2019
- First runner up in WIEHack'18 - an 'All Women Hackathon' organized by BVP IEEE and funded by Paytm under the Build for India scheme.	Oct. 2018
- Letter of appreciation from former Education Minister Smriti Zubin Irani for good academic performance in class X.	2015

Speaking Engagements

Coding Blocks · Speaker Apr. 2020
Hosted a [hands-on webinar](#) on Introduction of Git and GitHub and usefulness of Version Control Systems that crossed over 9k views.

Council of Scientific and Industrial Research, NISCAIR Jan. 2020
· Guest Trainer
Delivered sessions to the Fiserv employees during the training programme on 'Data Science: Big Data and Deep Learning'.

All Things Open Source · Speaker Aug. 2019
Introduced the participants to the field of Open Source and GitHub.

Google Cloud Study Jam · Organizer July 2019
Organized the Google Cloud Study Jam - a prime introduction to Google Cloud Platform Essentials with 200+ registrations and 85+ attendees.

International Women's Day Summit · Speaker, Organizer Mar. 2019
Headed the event and took an hour-long hands-on session on building apps for the Google Assistant. The event had a remarkable 84% female to male ratio.