---

layout: page

title:

permalink: /

---

<div class="row">

<div class="col-sm-6 col-xs-12">

<img src="/img/cover2.jpg">

</div>

<div class="col-sm-6 col-xs-12" style="margin-bottom: 0;">

Research Assistant<br>

Indian Institute of Technology, Hyderabad (IITH)<br>

rahulvigneswaran at gmail dot com

<!--

<br><br>

Co-founder, <a href="//caliper.ai">Caliper</a><br>

-->

</div>

</div>

<hr>

<a name="/news"></a>

**# News**

- [Jul 2019] Joined as Research assistant under the guidance of [Vineeth N Balasubramanian][vineeth].

<!--

- [Mar 2019] Co-founded [Caliper][caliper]. Caliper helps recruiters evaluate practical AI skills.

- [Feb 2019] My work was featured in this [wonderful article by Georgia Tech][ic-gt-article].

- [Jan 2019] Awarded the [Facebook Graduate Fellowship][fb-fellow-page].

- [Jan 2019] Awarded the Microsoft Research PhD Fellowship (declined).

- [Jan 2019] Awarded the NVIDIA Graduate Fellowship (declined).

- [Jan 2019] Organizing the [2nd Visual Dialog Challenge][visdial-challenge-2]!

- [Oct 2018] Presenting [Neural Modular Control for Embodied Question Answering](#/eqa-modular) as a spotlight at CoRL 2018. ([Video][58])

- [Sep 2018] Presenting [results and analysis of the 1st Visual Dialog Challenge][57] at ECCV 2018.

- [Jul 2018] Presenting a [tutorial on Connecting Language and Vision to Actions][49] at [ACL 2018][50].

- [Jun 2018] Organizing the 1st [Visual Dialog Challenge][53]!

- [Jun 2018] Presenting [Embodied Question Answering](#/embodied-qa) as an oral at CVPR 2018. ([Video][54])

- [Jun 2018] Organizing the [VQA Challenge and Visual Dialog Workshop at CVPR 2018][51].

- [Mar 2018] Speaking on [Embodied Question Answering][40] at [NVIDIA GTC][42]. ([Video][52])

- [Dec 2017] Awarded the [Adobe Research Fellowship][39]. ([Department's news story][44])

- [Dec 2017] Awarded the [Snap Inc. Research Fellowship][36]. ([Department's news story][43])

- [Oct 2017] Presenting our paper on [Learning Cooperative Visual Dialog Agents with Deep Reinforcement Learning](#/visdial-rl) as an oral at ICCV 2017. ([Video][37])

- [Jul 2017] Speaking about our work on [Visual Dialog](//visualdialog.org) at the [Visual Question Answering Challenge Workshop](http://visualqa.org/workshop.html), CVPR 2017. ([Video][41])

- [Jul 2017] Presenting our paper on [Visual Dialog](#/visdial) as a spotlight at CVPR 2017. ([Video][38])

-->

<div id="read-more-button">

<a nohref>Read more</a>

</div>

<hr>

<a name="/bio"></a>

**# Bio**

<!--

I am a 3rd year Computer Science PhD student at Georgia Tech, advised by [Dhruv Batra][2],

and working closely with [Devi Parikh][3]. My research focuses on deep learning

and its applications in building agents that can <i>see</i> (computer vision),

<i>think</i> (reasoning/interpretability), <i>talk</i> (language modeling), and

<i>act</i> (reinforcement learning).

My research is supported by fellowships from [Facebook][fb-fellow-page], [Adobe][39], and [Snap][36].

My CV is available [here][33].

<div class="row" id="timeline-logos">

<div class="col-xs-2">

<div class="logo-wrap">

<span class="helper"></span>

<a href="//iitr.ac.in"><img src="/img/logos/iitr.jpg"></a>

</div>

<div class="logo-desc">

IIT Roorkee<br>

2011 - 2015

</div>

</div>

<div class="col-xs-3">

<div class="logo-wrap">

<span class="helper"></span>

<a href="//qbi.uq.edu.au"><img style="width:120px;" src="/img/logos/uq.png"></a>

</div>

<div class="logo-desc">

Queensland Brain Institute<br>

Summer 2015

</div>

</div>

<!-- <div class="col-xs-2">

<div class="logo-wrap">

<span class="helper"></span>

<a href="//vt.edu"><img src="/img/logos/vt.png"></a>

</div>

<div class="logo-desc">

Virginia Tech<br>

2015 - 2016

</div>

</div> -->

<div class="col-xs-2">

<div class="logo-wrap">

<span class="helper"></span>

<a target="\_blank" href="//gatech.edu"><img src="/img/logos/gatech.png"></a>

</div>

<div class="logo-desc">

Georgia Tech<br>

2017 - Present

</div>

</div>

<div class="col-xs-3">

<div class="logo-wrap">

<span class="helper"></span>

<a target="\_blank" href="//research.fb.com/category/facebook-ai-research/"><img style="width:160px;" src="/img/logos/fair3.png"></a>

</div>

<div class="logo-desc">

Facebook AI Research<br>

S2017, W2018, S2018

</div>

</div>

<div class="col-xs-2">

<div class="logo-wrap">

<span class="helper"></span>

<a target="\_blank" href="//deepmind.com"><img style="width:120px;" src="/img/logos/deepmind.png"></a>

</div>

<div class="logo-desc">

DeepMind<br>

W2019

</div>

</div>

</div>

I've spent three wonderful semesters as an intern at Facebook AI Research — Summer 2017 and Spring 2018 at Menlo Park, working with [Georgia Gkioxari][46], [Devi Parikh][47] and [Dhruv Batra][48] on training embodied agents for navigation and question-answering in simulated environments (see [embodiedqa.org][40]), and Summer 2018 at Montréal, working with [Mike Rabbat][55] and [Joelle Pineau][56] on emergent communication protocols in large-scale multi-agent reinforcement learning.

Prior to joining grad school, I worked on neural coding in zebrafish tectum

as an intern under [Prof. Geoffrey Goodhill][4] and [Lilach Avitan][5]

at the [Goodhill Lab][6], Queensland Brain Institute.

I graduated from [Indian Institute of Technology Roorkee][31] in 2015.

During my undergrad years, I've been selected twice for

Google Summer of Code ([2013][8] and [2014][9]),

won several hackathons and security contests ([Yahoo! HackU!][10],

[Microsoft Code.Fun.Do.][11], Deloitte CCTC [2013][12] and [2014][13]),

and been an active member of [SDSLabs][16].

On the side, I built [neural-vqa][19], an efficient Torch implementation for visual question answering (and its extension [neural-vqa-attention][35]),

and maintain [aideadlin.es][34] (countdowns to a bunch of CV/NLP/ML/AI conference deadlines),

and several other side projects ([HackFlowy][20], [graf][21], [etc][22]).

I also help maintain [Erdős][17], a competitive math learning platform I created during my undergrad.

I often [tweet][23], and post pictures from my travels on [Instagram][24] and [Tumblr][25].

[Blog posts from a previous life.](/archive)

---

<a name="/publications"></a>

**# Publications**

<a name="/multi-agent-comm"></a>

<h2 class="pubt">TarMAC: Targeted Multi-Agent Communication</h2>

<p class="pubd">

<span class="authors">Abhishek Das, Théophile Gervet, Joshua Romoff, Dhruv Batra, Devi Parikh, Michael Rabbat, Joelle Pineau</span><br>

<span class="conf">ICML 2019</span><br>

<span class="links">

<a target="\_blank" href="https://arxiv.org/abs/1810.11187">Paper</a>

</span>

</p>

<img src="/img/multi-agent-comm/model.jpg">

<br><br>

<img src="/img/multi-agent-comm/shapes.gif">

<hr>

<a name="/eqa-mp3d"></a>

<h2 class="pubt">Embodied Question Answering in Photorealistic Environments with Point Clouds</h2>

<p class="pubd">

<span class="authors">

Erik Wijmans\*, Samyak Datta\*, Oleksandr Maksymets\*, Abhishek Das, Georgia Gkioxari, Stefan Lee, Irfan Essa, Devi Parikh, Dhruv Batra

</span><br>

<span class="conf">CVPR 2019 (Oral)</span><br>

<span class="links">

<a target="\_blank" href="https://arxiv.org/abs/1904.03461">Paper</a>

</span>

</p>

<img src="/img/eqa/eqa-mp3d.png">

<hr>

<a name="/avsd"></a>

<h2 class="pubt">Audio-Visual Scene-Aware Dialog</h2>

<p class="pubd">

<span class="authors">

Huda Alamri, Vincent Cartillier, Abhishek Das,

Jue Wang, Stefan Lee, Peter Anderson, Irfan Essa, Devi Parikh,

Dhruv Batra, Anoop Cherian, Tim K. Marks, Chiori Hori

</span><br>

<span class="conf">CVPR 2019</span><br>

<span class="links">

<a target="\_blank" href="https://arxiv.org/abs/1901.09107">Paper</a>

<a target="\_blank" href="http://video-dialog.com/">video-dialog.com</a>

</span>

</p>

<img src="/img/avsd/avsd.jpg">

<hr>

<a name="/avsd\_icassp"></a>

<h2 class="pubt">End-to-end Audio Visual Scene-Aware Dialog Using Multimodal Attention-based Video Features</h2>

<p class="pubd">

<span class="authors">

Chiori Hori, Huda Alamri, Jue Wang, Gordon Wichern, Takaaki Hori, Anoop Cherian, Tim K. Marks, Vincent Cartillier, Raphael Lopes, Abhishek Das, Irfan Essa, Dhruv Batra, Devi Parikh

</span><br>

<span class="conf">ICASSP 2019</span><br>

<span class="links">

<a target="\_blank" href="https://arxiv.org/abs/1806.08409">Paper</a>

<a target="\_blank" href="http://video-dialog.com/">video-dialog.com</a>

</span>

</p>

<img src="/img/avsd/avsd\_icassp.jpg">

<hr>

<a name="/eqa-modular"></a>

<h2 class="pubt">Neural Modular Control for Embodied Question Answering</h2>

<p class="pubd">

<span class="authors">Abhishek Das, Georgia Gkioxari, Stefan Lee, Devi Parikh, Dhruv Batra</span><br>

<span class="conf">CoRL 2018 (Spotlight)</span><br>

<span class="links">

<a target="\_blank" href="https://arxiv.org/abs/1810.11181">Paper</a>

<a target="\_blank" href="https://embodiedqa.org/">embodiedqa.org</a>

<a target="\_blank" href="https://www.youtube.com/watch?v=xoHvho-YRgs&t=7330">Presentation video</a>

</span>

</p>

<img src="/img/eqa/eqa-modular.png">

<hr>

<a name="/embodied-qa"></a>

<h2 class="pubt">Embodied Question Answering</h2>

<p class="pubd">

<span class="authors">Abhishek Das, Samyak Datta, Georgia Gkioxari, Stefan Lee, Devi Parikh, Dhruv Batra</span><br>

<span class="conf">CVPR 2018 (Oral)</span><br>

<span class="links">

<a target="\_blank" href="https://embodiedqa.org/paper.pdf">Paper</a>

<a target="\_blank" href="https://embodiedqa.org/">embodiedqa.org</a>

<a target="\_blank" href="https://github.com/facebookresearch/EmbodiedQA">Code</a>

<a target="\_blank" href="//youtu.be/gz2VoDrvX-A?t=1h29m14s">Presentation video</a>

</span>

<!-- Press: -->

<div class="row pressdiv" style="margin: 5px 0 0 0; line-height: 1.4em;">

<a style="border-bottom: 0;" target="\_blank" href="https://mlatgt.blog/2018/02/26/embodied-question-answering/">

<div class="col-lg-1 col-md-1 col-xs-2" style="padding: 0;">

<img src="/img/logos/mlgt.png" style="background: white; width: 60px;">

</div>

<div class="col-lg-11 col-md-11 col-xs-10">

<span class="presslink">"Embodied Question Answering" by Abhishek Das</span>

</div>

</a>

<a style="border-bottom: 0;" target="\_blank" href="https://code.facebook.com/posts/1622140391226436/">

<div class="col-lg-1 col-md-1 col-xs-2" style="padding: 0;">

<img src="/img/logos/fair2.png" style="background: white; width: 60px;">

</div>

<div class="col-lg-11 col-md-11 col-xs-10">

<span class="presslink">"... a goal-driven approach to autonomous agents" by Dhruv Batra, Devi Parikh</span>

</div>

</a>

<a style="border-bottom: 0;" target="\_blank" href="https://www.technologyreview.com/s/611040/facebook-helped-create-an-ai-scavenger-hunt-that-could-lead-to-the-first-useful-home-robots/">

<div class="col-lg-1 col-md-1 col-xs-2" style="padding: 3px 0;">

<img src="/img/logos/mittechreview.svg" style="background: white; width: 60px;">

</div>

<div class="col-lg-11 col-md-11 col-xs-10">

<span class="presslink">"... an AI scavenger hunt that could lead to the first useful home robots" by Will Knight</span>

</div>

</a>

</div>

</p>

<img src="/img/eqa/teaser.jpg">

<hr>

<h2 class="pubt">Evaluating Visual Conversational Agents via Cooperative Human-AI Games</h2>

<p class="pubd">

<span class="authors">Prithvijit Chattopadhyay<sup>\*</sup>, Deshraj Yadav<sup>\*</sup>, Viraj Prabhu, Arjun Chandrasekaran, Abhishek Das, Stefan Lee, Dhruv Batra, Devi Parikh</span><br>

<span class="conf">HCOMP 2017</span><br>

<span class="links">

<a target="\_blank" href="//arxiv.org/abs/1708.05122">Paper</a>

<a target="\_blank" href="//github.com/VT-vision-lab/guesswhich">Code</a>

</span>

</p>

<img src="/img/guesswhich/teaser.jpg">

<a name="/visdial-rl"></a>

<hr>

<h2 class="pubt">Learning Cooperative Visual Dialog Agents with Deep Reinforcement Learning</h2>

<p class="pubd">

<span class="authors">Abhishek Das<sup>\*</sup>, Satwik Kottur<sup>\*</sup>, Stefan Lee, José M.F. Moura, Dhruv Batra</span><br>

<span class="conf">ICCV 2017 (Oral)</span><br>

<span class="links">

<a target="\_blank" href="//arxiv.org/abs/1703.06585">Paper</a>

<!-- <a target="\_blank" href="//github.com/batra-mlp-lab/visdial-rl">Code</a> -->

<a target="\_blank" href="//www.youtube.com/watch?v=R4hugGnNr7s">Presentation video</a>

</span>

</p>

<img src="/img/visdial/qbot\_abot.jpg">

<hr>

<h2 class="pubt">Grad-CAM: Visual Explanations from Deep Networks via Gradient-based Localization</h2>

<p class="pubd">

<span class="authors">Ramprasaath R. Selvaraju, Michael Cogswell, Abhishek Das, Ramakrishna Vedantam, Devi Parikh, Dhruv Batra</span><br>

<span class="conf">ICCV 2017, NIPS 2016 Interpretable ML for Complex Systems Workshop</span><br>

<span class="links">

<a target="\_blank" href="//arxiv.org/abs/1610.02391">Paper</a>

<a target="\_blank" href="https://github.com/ramprs/grad-cam">Code</a>

<a target="\_blank" href="http://gradcam.cloudcv.org/">Demo</a>

</span>

</p>

<img src="/img/grad-cam/teaser.png">

<a name="/visdial"></a>

<hr>

<h2 class="pubt">Visual Dialog</h2>

<p class="pubd" style="margin-bottom:20px;">

<span class="authors">Abhishek Das, Satwik Kottur, Khushi Gupta, Avi Singh, Deshraj Yadav, José M.F. Moura, Devi Parikh, Dhruv Batra</span><br>

<span class="conf">PAMI 2018, CVPR 2017 (Spotlight)</span><br>

<span class="links">

<a target="\_blank" href="//arxiv.org/abs/1611.08669">Paper</a>

<a target="\_blank" href="//github.com/batra-mlp-lab/visdial">Code</a>

<a target="\_blank" href="http://visualdialog.org/">visualdialog.org</a>

<!-- <a target="\_blank" href="http://visualdialog.org/data">dataset</a> -->

<a target="\_blank" href="https://github.com/batra-mlp-lab/visdial-amt-chat">AMT chat interface</a>

<a target="\_blank" href="http://demo.visualdialog.org">Demo</a>

<a target="\_blank" href="//www.youtube.com/watch?v=I9OlorMh7wU">Presentation video</a>

</span>

</p>

<img src="/img/visdial/teaser.png">

<!-- <div id="vimeo-embed">

<iframe src="https://player.vimeo.com/video/193092429?byline=0&portrait=0&color=ffffff" width="640" height="360" frameborder="0" webkitallowfullscreen mozallowfullscreen allowfullscreen></iframe>

</div> -->

<hr>

<h2 class="pubt">Human Attention in Visual Question Answering: Do Humans and Deep Networks Look at the Same Regions?</h2>

<p class="pubd">

<span class="authors">Abhishek Das<sup>\*</sup>, Harsh Agrawal<sup>\*</sup>, C. Lawrence Zitnick, Devi Parikh, Dhruv Batra</span> <br>

<span class="conf">CVIU 2017, EMNLP 2016, ICML 2016 Workshop on Visualization for Deep Learning</span><br>

<span class="links">

<a target="\_blank" href="//arxiv.org/abs/1606.03556">Paper</a>

<a target="\_blank" href="https://abhishekdas.com/vqa-hat/">Project+Dataset</a>

<a target="\_blank" href="https://github.com/abhshkdz/neural-vqa-attention">neural-vqa-attention</a>

</span>

<!-- Press: -->

<div class="row pressdiv" style="margin: 5px 0 0 0; line-height: 1.4em;">

<a style="border-bottom: 0;" target="\_blank" href="http://nautil.us/issue/40/learning/is-artificial-intelligence-permanently-inscrutable">

<div class="col-lg-1 col-md-1 col-xs-2" style="padding: 0;">

<img src="/img/logos/nautilus.png" style="background: white; width: 57px;">

</div>

<div class="col-lg-11 col-md-11 col-xs-10">

<span class="presslink">"Is Artificial Intelligence Permanently Inscrutable?" by Aaron Bornstein</span>

</div>

</a>

<a style="border-bottom: 0;" target="\_blank" href="http://www.theverge.com/2016/7/12/12158238/first-click-deep-learning-algorithmic-black-boxes">

<div class="col-lg-1 col-md-1 col-xs-2" style="padding: 0;">

<img src="/img/logos/theverge.png" style="margin-right: 5px; background: white; width: 60px;">

</div>

<div class="col-lg-11 col-md-11 col-xs-10">

<span class="presslink">"Deep learning is creating computer systems we don't fully understand" by James Vincent</span>

</div>

</a>

<a style="border-bottom: 0;" target="\_blank" href="https://www.newscientist.com/article/2095616-robot-eyes-and-humans-fix-on-different-things-to-decode-a-scene/">

<div class="col-lg-1 col-md-1 col-xs-2" style="padding: 0;">

<img src="/img/logos/newscientist.jpg" style="background: white; width: 60px;">

</div>

<div class="col-lg-11 col-md-11 col-xs-10">

<span class="presslink">"Robot eyes and humans fix on different things to decode a scene" by Aviva Rutkin</span>

</div>

</a>

<a style="border-bottom: 0;" target="\_blank" href="http://www.techradar.com/news/world-of-tech/robots-and-humans-see-the-world-differently-but-we-don-t-know-why-1324165">

<div class="col-lg-1 col-md-1 col-xs-2" style="padding: 0;">

<img src="/img/logos/techradar.png" style="background: white; width: 60px;">

</div>

<div class="col-lg-11 col-md-11 col-xs-10">

<span class="presslink">"Robots and humans see the world differently – but we don't know why" by Duncan Geere</span>

</div>

</a>

<a style="border-bottom: 0;" target="\_blank" href="https://www.technologyreview.com/s/601819/ai-is-learning-to-see-the-world-but-not-the-way-humans-do/">

<div class="col-lg-1 col-md-1 col-xs-2" style="padding: 3px 0;">

<img src="/img/logos/mittechreview.svg" style="background: white; width: 60px;">

</div>

<div class="col-lg-11 col-md-11 col-xs-10">

<span class="presslink">"AI Is Learning to See the World—But Not the Way Humans Do" by Jamie Condliffe</span>

</div>

</a>

</div>

</p><img src="/img/vqa-hat/teaser.jpg">

<hr>

<a name="/talks"></a>

**# Talks**

<div class="row">

<div class="col-xs-6">

<p class="talkd">

<img src="/img/talks/visdial\_rl\_iccv17.jpg">

</p>

</div>

<div class="col-xs-6">

<p class="talkd">

<img src="/img/talks/embodiedqa\_cvpr18\_4.jpg">

</p>

</div>

</div>

<div class="row">

<div class="col-xs-12">

<div class="talkt">

<a target="\_blank" href="https://www.youtube.com/watch?v=WxYBp3Xr\_Nc">

Allen Institute for Artificial Intelligence: "Towards Agents that can See, Talk, and Act"

</a>

</div>

<div class="talkt">

<a target="\_blank" href="https://www.youtube.com/watch?v=xoHvho-YRgs&t=7330">

CoRL 2018 Spotlight: Neural Modular Control for Embodied Question Answering

</a>

</div>

<div class="talkt">

<a target="\_blank" href="https://youtu.be/gz2VoDrvX-A?t=1h29m14s">

CVPR 2018 Oral: Embodied Question Answering

</a>

</div>

<div class="talkt">

<a target="\_blank" href="http://on-demand.gputechconf.com/gtc/2018/video/S8582/">

NVIDIA GTC 2018

</a>

</div>

<div class="talkt">

<a target="\_blank" href="https://www.youtube.com/watch?v=R4hugGnNr7s">

ICCV 2017 Oral: Learning Cooperative Visual Dialog Agents with Deep RL

</a>

</div>

<div class="talkt">

<a target="\_blank" href="https://youtu.be/KAlGWMJnWyc?t=26m56s">

Visual Question Answering Challenge Workshop, CVPR 2017

</a>

</div>

<div class="talkt">

<a target="\_blank" href="https://www.youtube.com/watch?v=I9OlorMh7wU">

CVPR 2017 Spotlight: Visual Dialog

</a>

</div>

<div class="talkt">

<a target="\_blank" href="http://techtalks.tv/talks/towards-transparent-visual-question-answering-systems/63026/">

Visualization for Deep Learning Workshop, ICML 2016

</a>

</div>

<!-- <p class="talkd"> -->

<!-- <a target="\_blank" href="http://techtalks.tv/talks/towards-transparent-visual-question-answering-systems/63026/"><img src="/img/talks/vqahat\_icml16\_deepviz.png"></a> -->

<!-- </p> -->

</div>

</div>

<hr>

<a name="/projects"></a>

**# Side projects**

<div class="row">

<div class="col-sm-12">

<h2 class="talkt" style="font-weight:300;"><a target="\_blank" href="http://aideadlin.es">aideadlin.es</a></h2>

<p class="talkd">

aideadlin.es is a webpage to keep track of CV/NLP/ML/AI conference deadlines. It's hosted on GitHub, and countdowns are automatically updated via pull requests to the data file in the repo.

<a target="\_blank" href="http://aideadlin.es"><img style="margin-top: 10px;" src="/img/projects/ai-deadlines-1547012831.png"></a>

</p>

</div>

</div>

<div class="row">

<div class="col-sm-12">

<h2 class="talkt" style="font-weight:300;"><a target="\_blank" href="https://github.com/abhshkdz/neural-vqa-attention">neural-vqa-attention</a></h2>

<p class="talkd">

Torch implementation of an attention-based visual question answering model (Yang et al., CVPR16).

The model looks at an image, reads a question, and comes up with an answer to the question and a heatmap of where it looked in the image to answer it.

Some results <a href="https://computing.ece.vt.edu/~abhshkdz/neural-vqa-attention/figures/">here</a>.

<a target="\_blank" href="https://github.com/abhshkdz/neural-vqa-attention"><img class="project-img" src="/img/projects/neural-vqa-attention.jpg"></a>

</p>

</div>

</div>

<div class="row">

<div class="col-sm-12">

<h2 class="talkt" style="font-weight:300;"><a target="\_blank" href="https://github.com/abhshkdz/neural-vqa">neural-vqa</a></h2>

<p class="talkd">

neural-vqa is an efficient, GPU-based Torch implementation of the visual question answering model from the NIPS 2015 paper 'Exploring Models and Data for Image Question Answering' by Ren et al.

<a target="\_blank" href="https://github.com/abhshkdz/neural-vqa"><img src="/img/projects/neural-vqa.jpg"></a>

</p>

</div>

</div>

<div class="row">

<div class="col-sm-12">

<h2 class="talkt" style="font-weight:300;"><a target="\_blank" href="https://erdos.sdslabs.co">Erdős</a></h2>

<p class="talkd">

Erdős by <a target="\_blank" href="//sdslabs.co">SDSLabs</a> is a competitive math learning platform, similar in spirit to <a href="https://projecteuler.net/">Project Euler</a>, albeit more feature-packed (support for holding competitions, has a social layer) and prettier.

<a target="\_blank" href="https://erdos.sdslabs.co"><img style="margin-top:10px;" src="/img/projects/erdos.jpg"></a>

</p>

</div>

</div>

<div class="row">

<div class="col-sm-6">

<h2 class="talkt" style="font-weight:300;"><a target="\_blank" href="https://github.com/abhshkdz/graf">graf</a></h2>

<p class="talkd">

graf plots pretty git contribution bar graphs in the terminal.

<code>gem install graf</code> to install.

<a target="\_blank" href="https://github.com/abhshkdz/graf"><img style="margin-top:10px;" src="/img/projects/graf.gif"></a>

</p>

</div>

<div class="col-sm-6">

<h2 class="talkt" style="font-weight:300;"><a target="\_blank" href="https://github.com/abhshkdz/HackFlowy">HackFlowy</a></h2>

<p class="talkd">

Clone of <a href="//workflowy.com">WorkFlowy.com</a>, a beautiful, list-based note-taking website that has a 500-item monthly limit on the free tier :-(. This project is an open-source clone of WorkFlowy. "Make lists. Not war." :-)

<a target="\_blank" href="https://github.com/abhshkdz/HackFlowy"><img style="margin-top:40px;" src="/img/projects/hackflowy.png"></a>

</p>

</div>

</div>

<div class="row">

<div class="col-sm-6">

<h2 class="talkt" style="font-weight:300;"><a target="\_blank" href="https://github.com/abhshkdz/AirMaps">AirMaps</a></h2>

<p class="talkd">

AirMaps was a fun hackathon project that lets users navigate through Google Earth with gestures and speech commands using a Kinect sensor. It was the <a target="\_blank" href="https://blog.sdslabs.co/2014/02/code-fun-do">winning entry in Microsoft Code.Fun.Do</a>.

<a target="\_blank" href="https://github.com/abhshkdz/AirMaps"><img style="margin-top:10px;" src="/img/projects/airmaps.jpg"></a>

</p>

</div>

<div class="col-sm-6">

<h2 class="talkt" style="font-weight:300;"><a target="\_blank" href="https://github.com/sdslabs/hackview">HackView</a></h2>

<p class="talkd">

Another fun hackathon-winning project built during Yahoo! HackU! 2012 that involves webRTC-based P2P video chat, and was faster than any other video chat provider (at the time, before Google launched Hangouts).

</p>

</div>

<div class="col-sm-6">

<h2 class="talkt" style="font-weight:300;"><a target="\_blank" href="https://github.com/abhshkdz/8tracks-downloader">8tracks-downloader</a></h2>

<p class="talkd">

Ugly-looking, but super-effective bash script for downloading entire playlists from 8tracks. (Still works as of 10/2016).

</p>

</div>

</div>

<script src="/js/jquery.min.js"></script>

<script type="text/javascript">

$('ul:gt(0) li:gt(12)').hide();

$('#read-more-button > a').click(function() {

$('ul:gt(0) li:gt(12)').show();

$('#read-more-button').hide();

});

</script>

---

[1]: //mlp.cc.gatech.edu

[2]: ///www.cc.gatech.edu/~dbatra/

[3]: //www.cc.gatech.edu/~parikh/

[4]: //www.qbi.uq.edu.au/professor-geoffrey-goodhill

[5]: //researchers.uq.edu.au/researcher/2490

[6]: http://cns.qbi.uq.edu.au/

[7]: //developers.google.com/open-source/gsoc/

[8]: /posts/summer-of-code/

[9]: /posts/gsoc-reunion-2014/

[10]: //blog.sdslabs.co/2012/09/hacku

[11]: //blog.sdslabs.co/2014/02/code-fun-do

[12]: //www.facebook.com/SDSLabs/posts/527540147292475

[13]: /posts/deloitte-cctc-3/

[14]: /posts/google-india-community-summit/

[15]: //blog.sdslabs.co/2013/10/syntax-error-2013

[16]: //sdslabs.co/

[17]: //erdos.sdslabs.co/

[18]: //projecteuler.net/

[19]: //github.com/abhshkdz/neural-vqa

[20]: //github.com/abhshkdz/HackFlowy

[21]: //github.com/abhshkdz/graf

[22]: //github.com/abhshkdz

[23]: //twitter.com/abhshkdz

[24]: //instagram.com/abhshkdz

[25]: http://x.abhishekdas.com/

[26]: https://abhishekdas.com/vqa-hat/

[27]: http://arxiv.org/abs/1606.03556

[28]: https://www.newscientist.com/article/2095616-robot-eyes-and-humans-fix-on-different-things-to-decode-a-scene/

[29]: https://www.technologyreview.com/s/601819/ai-is-learning-to-see-the-world-but-not-the-way-humans-do/

[30]: http://www.theverge.com/2016/7/12/12158238/first-click-deep-learning-algorithmic-black-boxes

[31]: http://iitr.ac.in/

[32]: https://www.facebook.com/dhruv.batra.1253/posts/1783087161932290

[33]: https://drive.google.com/file/d/1nObeNzl-sTy8I5QN1Jv8wscebKLv-6RY/view?usp=sharing

[34]: http://aideadlin.es/

[35]: //github.com/abhshkdz/neural-vqa-attention

[36]: https://snapresearchfellowship.splashthat.com/

[37]: https://www.youtube.com/watch?v=R4hugGnNr7s

[38]: https://www.youtube.com/watch?v=I9OlorMh7wU

[39]: https://adoberesearch.ctlprojects.com/fellowship/previous-fellowship-award-winners/

[40]: https://embodiedqa.org/

[41]: https://youtu.be/KAlGWMJnWyc?t=26m56s

[42]: https://2018gputechconf.smarteventscloud.com/connect/sessionDetail.ww?SESSION\_ID=152715

[43]: https://www.ic.gatech.edu/news/600684/three-ic-students-earn-snap-research-awards

[44]: https://www.ic.gatech.edu/news/601084/new-research-fellowships-offer-two-students-funding-access-adobes-creative-cloud

[45]: https://github.com/facebookresearch/House3D

[46]: https://gkioxari.github.io/

[47]: https://research.fb.com/people/parikh-devi/

[48]: https://research.fb.com/people/batra-dhruv/

[49]: https://lvatutorial.github.io/

[50]: http://acl2018.org/tutorials/#connecting-language-and-vis

[51]: http://visualqa.org/workshop.html

[52]: http://on-demand.gputechconf.com/gtc/2018/video/S8582/

[53]: https://visualdialog.org/challenge/2018

[54]: https://youtu.be/gz2VoDrvX-A?t=1h29m14s

[55]: https://research.fb.com/people/rabbat-mike/

[56]: https://www.cs.mcgill.ca/~jpineau/

[57]: https://visualdialog.org/challenge/2018#winners

[58]: https://www.youtube.com/watch?v=xoHvho-YRgs&t=7330

[fb-fellow-page]: https://research.fb.com/announcing-the-2019-facebook-fellows-and-emerging-scholars/

[joelle-corl18-talk-mention]: https://www.youtube.com/watch?v=FSsEqEJKo8A&t=3497

[visdial-challenge-2]: https://visualdialog.org/challenge/2019

[ic-gt-article]: https://www.ic.gatech.edu/news/617061/see-and-say-abhishek-das-working-provide-crucial-communication-tools-intelligent-agents

[caliper]: https://caliper.ai

[vineeth]: https://www.iith.ac.in/~vineethnb/index.html