Deshraj Yadav

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EDUCATION

Georgia Institute of Technology   Atlanta, GA
Master of Science in Computer Science   *Aug. 2017 – Present*

JSS Academy of Technical Education   Noida, India
Bachelor of Engineering in Computer Science and Engineering; Aggregate: 78% with Hons.   *Aug. 2012 – June. 2016*

PUBLICATIONS

- **Evaluating Visual Conversational Agents via Cooperative Human-AI Games**
  P. Chattopadhyay*, **D. Yadav***, V. Prabhu, A. Chandrasekaran, A. Das, S. Lee, D. Batra, D. Parikh
  AAAI Conference on Human Computation and Crowdsourcing (HCOMP) 2017, **Oral**
  (* denotes equal contribution)

- **It Takes Two to Tango: Towards Theory of AI's Mind**
  A. Chandrasekaran*, **D. Yadav***, P. Chattopadhyay*, V. Prabhu*, D. Parikh
  Chalearn Looking at People Workshop, (CVPR) 2017
  (* denotes equal contribution)

- **Visual Dialog [visualdialog.org]**
  A. Das, S. Kottur, K. Gupta, A. Singh, **D. Yadav**, J.M.F. Moura, D. Parikh, D. Batra
  Computer Vision and Pattern Recognition (CVPR) 2017, **Spotlight**

EXPERIENCE

Georgia Institute of Technology   Atlanta, GA
Graduate Research Assistant   *Aug. 2016 - Present*

    Research on the problem of evaluation of Visual Dialog models focusing on making these models more accurate, better understand human intentions, tendencies, and contexts

Machine Learning and Perception Lab, Virginia Tech   Blacksburg, VA
Research Assistant   *June 2016 - May 2017*

    Worked with Dr. Dhruv Batra and Dr. Devi Parikh on research problems that lie at the intersection of Computer Vision, Machine Learning and Natural Language Processing

CloudCV   Atlanta, GA
Team Lead   *Jun. 2016 - Present*

    Responsible for managing distributed computing server, building new APIs, demos along with actively maintaining the projects such as EvalAI, Fabrik and Origami etc

Google Summer of Code, 2017   Atlanta, GA
Organization Administrator   *Mar. 2017 - August 2017*

    Responsible for managing CloudCV Organization and mentor 4 student projects during the summer

Google Summer of Code, 2016   Blacksburg, VA
Organization Administrator   *Mar. 2016 - August 2016*

    Mentored three students on software engineering and deep learning problems projects of CloudCV

Google Summer of Code, 2015   Blacksburg, VA
Student Developer   *Mar. 2015 - August 2015*

    Developed REST APIs for CloudCV and integrated NVIDIA's Deep Learning GPU Training System (DIGITS) with CloudCV

- **Cityflo** Mumbai, India
  Software Development Internship *Dec. 2015 - Feb 2016*

  Responsible for Test Driven Development for whole codebase of 10,000 lines, writing REST APIs for the customer and drivers Application and setting up CI/CD pipeline.

- **Siftr Labs** Noida, India
  Product Development Internship *Sep. 2015 - Dec 2015*

  Developed an IoT based product using beacons for the indoor navigation in big offices and malls.

- **Fratmart** Noida, India
  Backend Developer *Aug. 2014 - Dec 2014*

  Responsible for developing the whole product from scratch, managing the server, database management and other backend scripting tasks.

Teaching Experience

- **ECE 5424: Introduction to Machine Learning** Fall 2016
  Teaching Assistant with Dr. Stefan Lee

Selected Projects

- **EvalAI [evalai.cloudcv.org]**
  Open source platform that aims to help researchers, students and data scientists to create, collaborate and participate in various AI challenges.

- **Visual Chatbot [visualchatbot.cloudcv.org]**
  Given an image, dialog history, and a follow-up question about image, the chatbot answers the next question

- **Grad-CAM Demo [gradcam.cloudcv.org]**
  Visual Explanations from Deep Networks via Gradient-based Localization

- **Visual Question Answering (VQA) Demo [vqa.cloudcv.org]**
  Given an image, a question related to that image, the model will predict an answer

- **Diverse Beam Search Demo [dbs.cloudcv.org]**
  Generate diverse image-captions for models trained using the popular neuraltalk2 repository

- **InfoConnect [jssaten.org.in]**
  Student-Faculty interaction platform; 17000+ users; 20000+ notices uploaded; 5000+ daily active users

- **Skynet Mobile Browser**
  Web browser for windows phone; 30000+ downloads

Programming Skills

- **Languages**: Python, Lua, C++, C, Javascript, MATLAB **Version Control**: Git
- **Databases**: MySQL, PostgreSQL, MongoDB, Elasticsearch, Redis
- **DevOps**: Docker, AWS EC2, EBS, RDS, S3, SQS, VPC, Nginx
- **Frameworks**: Django Rest Framework, Flask, AngularJS, Torch
- **Mobile Applications**: Android, Windows mobile application development
- **Other Technologies**: Celery, RabbitMQ, Socket.IO, OpenCV

Awards and Achievements

- Felicitated for securing **highest paying job** since its establishment
- Travel Scholarship for **Google Summer of Code Mentor Summit, 2017**
- Winner, **VT Hacks**, Virginia Tech, 2016
- Travel Scholarship for **Google Summer of Code Mentor Summit, 2016**
- **National Means Cum-Merit Scholarship** recipient (2009 - 2012)
- **Prime Minister Scholarship Scheme** recipient (2012 - 2016)
- Winner, **Cassiopeian Wars**, 2014
- First runner-up, **Summer Hackathon**, 2014