Rishabh Thukral

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EDUCATION

CGC College of Engineering — Landran, Punjab, India
Bachelor of Technology in Computer Science; Percentage: 75% — *Aug. 2014 – May 2018*

P. K. R. Jain Ser. Sec. Public School — Ambala, India
High School; Percentage: 79% — *Aug. 2012 – May 2014*

EXPERIENCE

Karlsruhe Institute of Technology — Karlsruhe, Germany
Student Research Assistant — *Feb 2018 - Present*
- **Detection of lightning strikes in high speed videos**: Worked on building a classifier using Deep Convolutional Neural Networks to identify given any image is a lightning image or not.

Udacity — Mountain View, CA
Reviewer and Mentor — *Dec 2017 - Present*
- **Student Mentor**: Mentored and reviewed projects of hundreds of students enrolled in Udacity's Intro to Self Driving Car nanodegree.

Travlrr Inc. — Delaware, US
Co - Founder — *November 2017 - Present*
- **Concept**: Building a tool for travellers which allows them to share their experience with the world by way of Travlrr Stories at a global platform.

Ketchupp, D I Info solutions — Delhi, India
Backend - Systems Engineer — *Summer 2016*
- **Feature Extraction and Detection**: from the text in the context of recorded food deals from various websites for the purpose of analyzing the nature and information about it from the data.
- **Ketchupp Food Bot**: Developed a Facebook Messenger bot using basic NLP and Decision Flow implementation. The bot allowed any Facebook user to get food media updates from the Ketchupp Blog and access many other exciting features.

PROJECTS

- **Image classification on 102 category flower data set**: Developed and trained a Feed Forward Classifier Network on top of VGGNet to label the given image of a flower as one of the 102 categories available in the 102 Category Flower Dataset.
- **Deep-Q Network on flappy bird**: The project shows that the Deep-QN learning algorithm from Deepmind's pioneering paper can further generalized to the notorious Flappy Bird.
- **Lane Detection for self-driving car using semantic segmentation**: Developed a Fully Convolution Network on top of VGGNet using skip layer architecture to label the pixels of a road in a image.
- **5 Words Daily - Learn English Vocabulary**: Developed an android application which allows a user to learn new words every day through interactive activities.

LANGUAGES AND TECHNOLOGIES

Python, C++, Javascript, Java, Lua, Sql, MATLAB, C, LATEX

SELECTED COURSEWORK

Machine Learning, Deep Learning, Computer Vision, Reinforcement Learning, NLP, DBMS, Design and Analysis of Algorithms

ACADEMIC / CO-CURRICULAR ACHIEVEMENTS

- **Smart India Hackathon**: Lead a team of 6 into the finals representing the college and the state of punjab at a National Level.
- **Projects Team - CSE Department**: Lead the team in 5th and 6th semester to complete the task in hand and mentored the same in 7th semester
- **Speed Cubing**: A speed cuber with a best of 33.54 seconds.