

# Harsh Goyal

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## SKILLS

### PROGRAMMING

Experienced with:

Python • C++ • Java • C

Exposure to:

Matlab • Javascript • Verilog •  $\LaTeX$

### MACHINE LEARNING

Scikit-Learn • Pandas • Matplotlib • Seaborn

## AWARDS

Ajit Ramchandani Endowed Scholarship

Recipient of scholarship awarded by UT Austin College of Natural Sciences to International Students on merit basis.

Tech Hunt at IIT Delhi

Winner among 6000 participants for making a keyboard which can be controlled with your foot.

## MISC. PROJECTS

Image search in Matlab

Face Detector using Viola Jones

Pipelined processor in Verilog

Operating System on Multiprocessor Systems

AI for Tetris with Genetic Algorithms

Sketch Filter for Photos

Markov chains for Text

Word finder for Boggle

## LINKS

Facebook:// [hgoyal.dps](#)

Github:// [harshgo](#)

LinkedIn:// [harsh-goyal](#)

## LANGUAGES

English, Hindi, Marwari

## EDUCATION

### UNIVERSITY OF TEXAS AT AUSTIN | BS C.S.- TURING SCHOLAR

Aug 2015 - Present | Austin, TX

- GPA— Departmental: 3.89; Overall: 3.87
- Relevant Coursework: Data Structures H., Algorithms H., Programming Languages H., Artificial Intelligence H., Operating Systems H., Computer Vision H., Data Mining H., Probability, Linear Algebra

## EXPERIENCE

### GOOGLE, INC. | SOFTWARE ENGINEERING INTERN, SEARCH TEAM

June 2017 - August 2017 | New York City, NY

- Conceptualized, built and released an internal data analysis tool used by a team of 60 engineers in Python.
- Learnt how to build a technical product from ground up, set up a server, take user input in design etc.

### TRUECAR, INC. | MACHINE LEARNING INTERN

June 2016 - August 2016 | Austin, TX

- Developed Machine Learning pipeline using Adaboost to predict whether a user will buy a car.

### UTCS FRESHMAN RESEARCH INITIATIVE | PEER MENTOR

Jan 2016 - May 2016 | Austin, TX

- Researched possible use of machine learning to automate recording chess game moves as part of Computational Intelligence lab.
- Served as mentor to five freshmen in their research.

### SAI VOCATIONAL TRAINING CENTER | C.S. TEACHER

March 2014 - March 2015 | Delhi, India

- Taught 60 students in 12-30 age bracket. Initially taught typing, then internet usage and finished with programming in Java.

## PERSONAL PROJECTS

### TEARSOS

Worked with 50 on one Git repo to make an operating system for a multi-core system. Headed the shell and the copy-on-write teams.

### CHESS MOVE TRACKER

Used convolutional neural networks to build an application which tracks the movement of chess pieces on a board from sequential images.

### WEBCRAWLER

Programmed a Java application to crawl a set of websites, analyze the data, and act as a search engine over it.

## COMMUNITY INVOLVEMENT

Machine Learning and Data Science Officer. Created teaching material for and taught Machine Learning. Organized

Turing Scholars Student Association Corporate officer. Raised \$8500+ from companies. Organized 10+ events for Turing Scholars Students.