Vishal Golcha

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EDUCATION

BITS,PILANI

B.E. COMPUTER SCIENCE
M.Sc. PHYSICS
Aug 2014- Present

COURSEWORK

Artificial Intelligence
Data Structures and Algorithms
Operating Systems
Udacity Deep Learning Nanodegree Graduate
Object Oriented Programming
Discrete Structures for CS
Logic Programming
Quantum Computing
Quantum Mechanics
Computational Physics

LINKS

GitHub:// **vishalgolcha**
Blog : // **Vishal's Blog**
LinkedIn:// **vishal-golcha**

COMPETITIVE PROFILES

Codeforces:// **v_geta**
HackerRank:// **vishalgolcha**

SKILLS

PROGRAMMING

Well versed
C++ • Python• JAVA

Familiar
PHP•CSS•Racket

ML Libs and Frameworks
Pandas•Numpy
Sci-Kit Learn•OpenCV
TensorFlow•Keras•Torch

LEADERSHIP

PRESIDENT, NIRMAAN
www.nirmaan.org

•Led a group of 120+ people to bring about changes in villages nearby Pilani .

• Led a team to construct 10 toilets in village Baas .

EXPERIENCE

YRALS |Software Engineering Intern
May 2016 – July 2016 | Mumbai ,India

- **Image Suggestion Tool for GIST** .
- Worked on a recommendation system for automated video creation primarily based on tagging popular named entities to their respective images .
- Get a glimpse of the platform at: **https://gistai.com/**

RESEARCH EXPERIENCE

MACHINE VISION LAB , CSIR-CEERI | Research Intern
Advised by : Dr Santanu Choudhary , Director , CEERI Pilani
May 2017 – Present | Pilani ,India

- **Image Captioning Models with Hindi Descriptions** .
- Working on a multi-modal deep learning model that generates contextual as well as culturally apt descriptions of images .
- Extracted a custom Hindi Image Caption dataset from various news websites .

SELECTED PROJECTS

NEURAL MACHINE TRANSLATION May - Jun |2017

- Worked on encoder decoder based architectures to translate English sentences to French .
- The core unit of the architecture was LSTM cells and a small vocabulary of 200 words was chosen .
- **Github Link**

SPEED SIGN DETECTOR | Kaggle Competition

- The competetion involved detecting speed limit signs from a dataset given by Map My India .
- A 3-layer Histogram of Oriented Gradients based approach was used to predict bounding boxes for speed signs in images.
- **Github Link**

COURSE PROJECTS

ARTIFICIAL INTELLIGENCE

- Bayes Net Inference Tool : A GUI based Bayes Net Inference tool , returns inference for any query you feed in .
- Align-3 : A 2 player game played against the computer , computes next moves via minimax with alpha beta pruning.

LOGIC PROGRAMMING

- KNN Clustering : A K-Nearest Neighbors based clustering was implemented in Racket (Previously Scheme) .

AWARDS

2011   Runner Up at TCS IT WIZ,Delhi,India
2011   Winner at Times Of India Fundamental Quiz
2010   2nd Runner up at Inquizzitve by Hindustan Times