

# Swapnil Sharma

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## Education

### B.Tech. in Information Technology

IIITA(INDIAN INSTITUTE OF INFORMATION TECHNOLOGY, ALLAHABAD)

CGPA - 8.45

Allahabad, India

Aug. 2015 - PRESENT

### Senior Secondary Examination Class XII

CBSE

Percentage- 94.40

2014

### Higher Secondary Examination Class X

CBSE

CGPA- 10.0

2012

## Projects

### Evolutionary Domain Adaptation

A PROJECT IN TRANSFER LEARNING (TEAM)

Jan. 2018 - May. 2018

- A practical extension to **Neuro-evolution** in which a complex task of **Domain Adaptation** is addressed.
- Its task is **Object Recognition** when images are in two different domains. The model was trained in source domain(like pictures during daytime) and tested on, more difficult, target domain( like pictures of same object during night.)
- The model was multi-objective neuro-evolution with error heuristics and algorithm being our own.
- <https://github.com/atulsinha007/Domain-adaptation>

### Multi-Objective Neuro-evolution

A PROJECT IN DEEP LEARNING(TEAM)

Aug. 2017 - Dec. 2017

- A **classification** model is implemented which uses **Genetic Algorithm**(mainly) to develop an optimum deep network.
- A network can be developed not just in weights but also in whole topology comprising hidden units and connections, allowing arbitrarily complex networks to take shape. This allows early convergence.
- It is based on a famous research named **NEAT**. and uses a powerful genetic Algorithm **NSGA-II**.
- Occasionally, **Back-Propagation** is applied to boost the convergence.
- Implementation is majorly in **python** but use **Tensorflow** for back-propagation. For implementation of NSGA-II, an API named **DEAP** is used.
- <https://github.com/nilinswap/neuro-evolution>

### Supermarket Billing System

A PROJECT IN C++ OOP AND PYTHON PORTABILITY

June 2017

- It is a tool that assists supermarket billing by retrieving information from Database.
- It is coded in **C++** and uses **MySQL** for managing databases. This ' simple-from-outside ' application uses **Python Embedding** technique ( using Python.h Module of CPP) to connect to database.
- It was to teach me OOP and **Python portability**.
- <https://github.com/nilinswap/supermarketproj>

### Internship Locator

A PROJECT ON BACK-END DEVELOPMENT(TEAM)

Jan 2017 - May 2017

- It is a web application that connects needful Companies to promising students.
- It has **Python** taking help of **Flask** framework, working behind the curtains. It uses **Bootstrap** on outside.
- [https://github.com/nilinswap/internship\\_proj](https://github.com/nilinswap/internship_proj)

## Skills And Interests

## Technical Skills

*C, Python, C++, Tensorflow, Flask,  
PHP, Selenium, MySQL*

## Interests

*Computers, Football, Dance,  
Reading*

## Extracurricular Activity

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### IIITA Football Team

LEFT BACK

*Jan. 2017 - PRESENT*

- Learned **team spirit and co-operation** while playing for the college team in various sports events across Colleges.

### IIITA Dance Society

MEMBER

*Aug. 2015 - Aug. 2017*

- Helped manage various events during college fests and performed in a number of Dance events.
- Learned a very important skill: **Co-ordinate** with the squad to look like one body on stage.

### Futsal

ORGANIZER

*Oct. 2016*

- Learned to work with Juniors to make a big event possible.
- Learned **Communication and 'selling' skills.**
- Learned Refereeing football.

## Honors & Awards

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- 2016 **Left Back**, Represented College in Spardha 2016 (BHU), Varanasi, U.P., INDIA
- 2017 **First**, Inter-Year Football Competition, IIITA
- 2016 **Finalist**, Inter-Year Football Competition, IIITA
- 2015 **First**, Dance Competition Foundation Day, IIITA