



# Ashish Jaiswal

## Software Engineer

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November 04, 1995

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I am a college senior at Kathmandu Engineering College and work as a Software Engineer at Insight Workshop.

## WORK EXPERIENCE

### Software Engineer Insight Workshop

04/2018 – Present Kathmandu, Nepal, 44600

#### Achievements/Tasks

- Develop web apps in Django and Angular
- Work with AWS services

### Machine Learning Engineer Trainee Insight Workshop

12/2017 – 04/2018 Kathmandu, Nepal, 44600

#### Achievements/Tasks

- Data Science in Python
- Implementation AI & Machine Learning Algorithms in web apps
- Machine Learning with AWS Services

### Secretary Robotics Club, Kathmandu Engineering College

06/2015 – 07/2018 Kathmandu, Nepal

#### Achievements/Tasks

- As an acting Secretary of the club
- Involved in Embedded System & Robotics projects

## EDUCATION & TRAINING

### Columbia Micromasters in AI (EdX) Sponsored by Fusemachines Nepal

01/2018 – Present

#### Courses

- Artificial Intelligence
- Machine Learning
- Robotics
- CGI

### Web Development in Python IW Academy

07/2017 – 11/2017

#### Courses

- Python & Django
- AWS Services

### Bachelors in Electronics & Communication Engineering Kathmandu Engineering College

11/2014 – Present Kathmandu, Nepal

#### Courses

- Embedded Systems
- Computer Science

## SKILLS

Artificial Intelligence Machine Learning Python

Django Linux Angular (ES6) MySQL

AWS Services Agile Development jQuery (ES5)

UI/UX Nginx REST API IoT

Embedded Systems Robotics C/C++

AVR/Arduino

## ACHIEVEMENTS & AWARDS

### Certification in Artificial Intelligence

Columbia University Online Micromasters Program

### Winner - Datathon (Data Analysis Competition) 2018

Fusemachines Nepal

### Best Engineering Award

IOE Robocon 2018

### Fusemachines AI Fellowship

Columbia Micromasters Program - 2018

### Tech Diversity Scholarship

Web Development in Python - IW Academy (Sponsored by Nepal Telecom)

### 1st Runnerup - Krishakcopter (Yantra)

International Drone Competition 2016

### Regular (Full) Scholarship

Bachelors in Electronics & Communication Engineering - 2014

## LANGUAGES

Nepali

Native or Bilingual Proficiency

English

Full Professional Proficiency

Hindi

Professional Working Proficiency

## INTERESTS & HOBBIES

Computer Vision

IoT

Data Science

Web Services

Cricket

Music

Traveling

# PROJECTS & INVOLVEMENTS

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## IoT in Medicine

*Company Project*  
*Blood Pressure & Heart Rate Monitoring System*  
*Angular SPA powered by Django REST API*

## Computer Vision in Medicine

*Client Project*  
*Diabetic Retinopathy Detection from Iris Images*  
*Machine Learning with Python*  
*Image Processing with SkImage*

## CMS Web Application

*Company Project*  
*Django CMS Application*  
*MySQL Database Server*

## Business Sales Management System

*Company Project*  
*Django Application*  
*Celery for handling background tasks*  
*Report Builder with Openpyxl*

## KrishiSathi

*Final Year Major Project*  
*Precision Agriculture*  
*Crop Prediction and Care*  
*IoT Device and Web Application*  
*Machine Learning*

## Robotic Arm with Record & Play Feature

*Third Year Minor Project*  
*Arduino Driven*  
*Industrially applicable*  
*Autonomous Pick & Drop Arm*

## Innovator at NIC

*National Innovation & Research Center*  
*Pulchowk, Kathmandu, Nepal*

## 2D Box Game with OpenGL (C++)

*Personal Project*  
*Graphics Library in C++*

## 3-Day Drone Workshop Trainer

*Drone Building Workshop from Scratch*  
*Autonomous Line Following Robot*  
*Kusma Boarding School, Parbat*

## AI Projects

- *Search Algorithms (BFS, DFS, A\*)*
- *Adversarial Search & Game (2048 Solver)*
- *CSP (Sudoku Solver)*
- *NLP (Sentiment Analysis)*

## ML Projects

- *Ridge Regression & Active Learning*
- *Bayes Classifier Implementation*
- *Clustering (K-means & EM Gaussian)*

## Number Plate Detection Project (OCR)

*Nepali Numerals Detection with Tesseract Engine*  
*Software Category*  
*Locus 2015*