# ASHISH JAISWAL

## Software Engineer

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# EXPERIENCE

### Software Engineer
**Python Team (Insight Workshop)**

📅 May 2018 – Present    📍 Kathmandu, Nepal

- Write effective, scalable code in Django & Angular and develop back-end components to improve responsiveness and overall performance
- Implement security and data protection solutions with AWS Services (EC2, RDS, S3, Lambda, CloudWatch)
- Coordinate with internal teams to understand user requirements and provide technical solutions.
- Develop custom python packages and libraries as per the client and project's needs

### Machine Learning Engineer Trainee
**Insight Workshop**

📅 Dec 2017 – April 2018    📍 Kathmandu, Nepal

- Implemented AI & ML algorithms for optimization of web applications and services (data-related applications like document similarity & classification)
- Learned & incorporated classical machine learning techniques in web applications
- Worked on IoT projects related to health monitoring system

# ACHIEVEMENTS

- **Fusemachines Datathon Winner** 2018
- **3-Day Drone Workshop** 2016 - Kusma, Parbat
- Placed as **1st runner-up in KrishakCopter** – International Drone Competition 2016
- **Semi-Finalists** in National Sumo-Robot Competition - "Manual Akhada" & **Runner-up** in Line-Following Robotics Competition
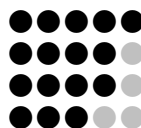
# SKILLS

**Python, Django, JavaScript, Angular** ⬤⬤⬤⬤⬤
**AWS, Git, Linux, TDD** ⬤⬤⬤⬤◯
**Pandas, Matplotlib, Numpy, SQL, Scraping** ⬤⬤⬤⬤◯
**Scikit-learn, Keras, TensorFlow, Jupyter NB** ⬤⬤⬤◯◯

# EDUCATION / COURSES

### Micromasters in Artificial Intelligence
**Columbia University - EdX**

📅 Jan 2018 – May 2019

### Bachelors in Electronics & Comm. Engineering
**Kathmandu Engineering College, Tribhuvan University**

📅 Nov 2014 – Sep 2018

# HONORS & AWARDS

- Selected as an **AI Scholar** in 2018 - FuseMachines Nepal
- Awarded as one of the **25 AI-fellows** from Nepal in 2017 - FuseMachines Nepal
- **Regular (Full) Scholarship** awarded by Institute of Engineering - B.E.

# PROJECTS

### KrishiSathi
- A web portal for farmers integrated with Machine Learning and IoT to analyze daily crops and their growth

### Semi-Autonomous Solar Panel Cleaning Robot
- A semi-autonomous robot that turns on street lights and then cleans solar panels autonomously with assistance from a small helper robot
- Yielded us the **Best Engineering Award** at Robocon Nepal 2018

### Hexacopter
- A self-designed hexacopter (drone) with a customized KK2 flight controller
- Yielded us the second place in an international drone competition

### Industrial Robotic Arm
- Arduino-driven and supported by servo motors, the arm is a prototype for carrying out industrial chores
- Powered with record-and-play feature for automation

### Currency Predictor
- A simple Django web application that predicts the price of a selected cryptocurrency in the near future, using timeseries

### BP & Heart Rate Monitoring System
- A health analyst web application (Angular SPA & Django REST) supported by an IoT Blood Pressure device

### WCMS for a Juice Sales Enterprise
- Developed a data-analysis web application to monitor and visualize sales in an commercial enterprise
- Applied an extension of python's **gestalt pattern matching** approach to resolve data duplicity issues

### GRE Vocab Wallpaper
- A python script for Linux that changes desktop wallpaper every minute with a random GRE vocabulary
- Helped me score a 321 in the GRE with a 4.5 in AWA