

# Ameya Sandim

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## EDUCATION

### Master of Engineering in Computer Engineering

Aug 2019 - May 2022

Iowa State University, Ames, IA

*Relevant Coursework: Deep Learning, Machine Vision, Learn to Speak AI, Introduction to Machine Learning, Data Analytics in Electrical and Computer Engineering*

### Bachelor of Engineering in Information Technology

Aug 2014 - May 2018

Vidyalankar Institute of Technology, Mumbai, India

## WORK EXPERIENCE

### InstaHub, Philadelphia - Data Analyst Intern

Aug 2021 - Dec 2021

- Oversaw a team while building Machine Learning Models for HVAC outcome prediction using Python
- Collaborated with the front-end team to demonstrate the outcomes on product dashboard using Python visualization packages
- Developed Python scripts for classifying live data

### AmbitionBox.com, India - Digital Marketing Intern

Aug 2015 - Oct 2015

- Communicated with employees of companies to gather their interview and work experiences
- Created a SQL Database using the collected information
- Analyzed it using analysis tools like Weka and Microsoft Excel to generate important data for the company

## SKILLS

**Languages :** Python, JavaScript (React,Node), Java, SQL, Matlab, C

**Deep Learning Packages :** PyTorch, TensorFlow, Keras, Scikit-Learn, OpenCV

**Softwares/Tools :** Tableau, Weka, AutoCad, Microsoft Visual Studio

**Operating Systems :** Linux, Windows, Mac

**Web and Design aids :** HTML, CSS, , Photoshop, LATEX

**Cloud Platforms :** AWS, Google Cloud

## MAJOR PROJECTS

### StackGAN: Text to Image Generation using Stacked Generative Adversarial Networks

(Python, PyTorch, RNN, GANs; Tools: Jupyter Notebook, Github & Sublime text)

- Implemented a online paper based on text to Image Generation using Generative Adversarial Networks (GANs)
- Generated high-resolution photo-realistic images based off text description provided using the trained GANs

### Drowsiness Detection System

(Python, CNN, Computer Vision; Tools: OpenCV, Jupyter Notebook & Sublime Text)

- Developed a system for alerting when the driver is sleepy using the video feed from the camera in a car
- Trained a Convolutional Neural Network model to analyze the live feed from the camera and alert the driver when he/she is falling asleep

### Animal Classification Using CNN

(Python, CNN; Tools: OpenCV, Jupyter Notebook & Sublime text)

- Designed a platform to classify images of dogs and cats when a picture is uploaded by the user
- Created an interactive upload window using Python for uploading an image and the trained CNN model can classify the images as cats or dogs

### Lost and Found (A portal to find Missing People)

(Matlab, PhP, HTML; Tools: LATEX & Sublime text)

- Developed an online portal that can help a user to find missing people using facial recognition on images present in the Database
- Learned and implemented algorithms such as Histogram of Oriented Gradient (HOG) and Eigen Faces face recognition

## CERTIFICATIONS

- The Complete 2022 Web Development Bootcamp by Udemy
- Deep Learning Specialization by DeepLearning.AI
- MTA : Software Development Fundamentals on ADO.Net, C#, Visual Studio