Shubhajit **Das**

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Professional Statement

I am a computer science graduate extremely passionate about solving problems in various domains with the greatest precision and perfection. My research area includes Computer Vision, Deep Learning, Machine Learning, and Natural Language Processing.

Work Experience

Aryabhatta Robotics *May 2019 - Present*

Deep Learning Intern *Bangalore, India*

- Worked on an end to end Computer Vision based software which included Face Recognition, Object Detection, Eye Gaze tracking, etc.
- Responsibility includes training of neural nets and the deployment

Education

Government College of Engineering, Keonjhar (BPUT, Odisha) *Aug. 2015 - Apr. 2019*

B.Tech. in Computer Science and Engineering, CGPA= 8.58/10 *Keonjhar, Odisha*

F.M. Junior College (CHSE, Odisha) | (BSE, Odisha) *- April 2014*

12th - 64.17% | 10th - 85.5% *Balasore, Odisha*

Internships

Azuik Technologies *Oct. 2018 - Dec. 2018*

Machine Learning Intern *Bangalore, India*

- Worked on a Computer Vision and NLP based System
- Experimented with different model architectures and analyzed the results

Udiyate Technologies *May. 2018 - July. 2018*

Deep Learning Intern *Bhubaneswar, India*

- Worked on real time object detection system for some custom objects.
- Designed the complete pipeline, including data collection, preparation, annotation, modeling and fine-tuning. Experimented with different model architectures (YOLO-v2, SSD).
- Used Keras (Tensorflow backend) along with other python libraries like OpenCV, matplotlib, numpy.

Projects

Crop Disease Detector *Dec. 2018 - Jan. 2019*

Demo WebApp : https://which-crop-disease.onrender.com/

- Identify the disease in the crop given an image of its infected leaves.
- Trained Resnet50 on PlantVillage dataset (38 classes) using 1-cycle-Policy with fastai which gave an accuracy of 99.7%

Fisheries Monitoring *Oct. 2018*

Kaggle competition

- Trained a resnet50 model for the fine-grained classification of 8 different category of fishes in the images

Dog Breed identification *Jun. 2018*

Kaggle competition

- Trained A Resnet50 model for identifying the dog-breed in dog-images (total 120 breeds), with an accuracy of 92.22%

Skills

Programming Languages	Python, C++, Java, C, HTML, PHP, Dart
Miscellaneous	Machine Learning, Deep learning, Computer Vision, NLP
Frameworks / Libraries	PyTorch, Tensorflow, fastai, Keras, scikit-learn
IDEs /Editors / VCS	PyCharm, IntelliJ, VS Code, Jupyter Notebook, Git, Github

Coursework

- Undergraduate Coursework: Data Structures & Algorithms, Operating Systems, Computer Networking, Database Systems
- fastai (part 1): Practical Deep Learning for Coders
- fastai (part 2): Cutting Edge Deep Learning For Coders
- CS231n: Convolutional Neural Networks for Visual Recognition
- Deep Learning Specialization : deeplearning.ai (Coursera)
- Machine Learning (by Andrew Ng.) : Coursera

**References available upon request*