Ashish Goswami

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EDUCATION

IIT-Delhi
PhD, School of AI
Expected Grad. May 2026
Cum. GPA: 8.8/ 10.0

IIIT-Guwahati
B.Tech in Electronics and Comm.
Expected Grad. May 2022
Cum. GPA: 8.5/ 10.0

SKILLS

Technical Skills:
Deep Learning, Computer Vision,
NLP, Adversarial Networks
Frameworks:
Pytorch, Lightning, Keras, OpenCV,
Flask
Languages and Libraries:
Python, C, Java, Numpy, Pandas
Tools:
Git, Vim, AWS

COURSEWORK

Machine Learning
Deep Learning
Advance Computer Vision
Mathematics for MINDS
Data Structure and Algo.
Linear Algebra
Calculus and Probability
Computer Architecture
Signal Processing

ACTIVITIES

Mavericks: The ML Society
Co-ordinator
IIIT-G

08.20.2024

EXPERIENCE

Delhivery   Nov 2021 – Aug 2022
Associate Data Scientist   Gurugram, IN
- Working on improving serviceability polygon coverage to 99.9% of shipments

Applied Data Science Intern   Gurugram, IN
- Worked on Computer Vision based applications to optimize truck load and empty trolley utilization at Sorting facilities, improving mAP by 7%.
- Worked on improving capabilities of spell correction module using DL.

Holosuit Pte. Ltd.   June 2021 – Nov 2021
Computer Vision Intern   Mysore, IN

- Contributed to building scalable Knowledge Graphs based closed domain conversational AI as a QA system
- Worked on Python and Unity based Robotics framework for teaching assistance.

Spyne.ai   Aug 2020 - Nov 2020
Computer Vision Intern   Gurugram, IN
- Worked on High Resolution background matting model for various e-commerce categories.
- Built Auto Image Tagging and Title generation models for fashion clothing items using Tensorflow, Flask, AWS for scalable deployment.

SJTech Solutions Pvt. Ltd.   May 2020 - July 2020
Machine Learning Development Intern   Bhopal, IN
- Developed an end-to-end ML system similar to AutoML for tabular data.
- Worked on retail chatbots, aswell as GAN based face image generation tools.

RESEARCH PUBLICATIONS

[1] Harman Singh, Poorva Garg, Mohit Gupta, Kevin Shah, Ashish Goswami, Satyam Kumar Modi, Arnab Kumar Mondal, Dinesh Khandelwal, Parag Singla, Dinesh Garg
"Image Manipulation via Multi-Hop Instructions - A New Dataset and Weakly-Supervised Neuro-Symbolic Approach" At EMNLP 23-Main
[link]

ACHIEVEMENTS

Kaggle Expert (Rank 420/40,888)
 [Profile Here]

Smart India Hackathon 2020
National Level Finalist for
DL based Road Damage
Detection solution.   [Code]

Secured 140th rank out of 10,000+
participants on Amazon ML
Challenge on Hackerearth.

Won the Attentive.ai's Image
Classification Competition hosted
on Dockship.io.   [Code here]

Finalist at National
Astronomy Olympiad.

REFERENCES

Prof. Parag Singla
**Professor IIT-Delhi (CSE, HEAD School
of AI**)
email: parags@cse.iitd.ac.in

Dr. Shovan Barma
**Asst. Professor IIIT-G (Dept. of
Electronics and Communuication)**
email: shovan.barma@gmail.com

PROJECTS

Leukemia Detection from Blood Cell Images
Leukimia detection have very imbalanced dataset, ovecame this by
using Cross-validation and penalizing dominant class.
Trained Efficient B3 with custom standardization and LR schedule to
obtain 94.5 f1 score on TPUs.

Multi-Modal Book cover classification
This was part of my final assignment for COL775@IIT-Delhi. Given
image, title pairs we had to correctly classify the book genre. Using
a fine-tuned CLIP for multi-modal representation, I was able to rank
#1 in a class of 120 students

Image Captioning App
Incorporating CNNs and Transformers to create a lightweight Image
Captioning model to work on Android using Flutter and Tensorflow.

Resilience Analysis of GANs and introduction of approximations
Analysed the error resilience shown by GANs (DCGANs, WGANs,
and CycleGANs)so as to employ approximations in them

Hand Written Text Recognition
2nd Prize, Rethink UX's text Recognition Challenge, 2020
Used OpenCV pipeline to segment lines from a page.
Utilised an Encoder(CNN)-Decoder(Transformer) architecture to
achieve 94% acc.

Task Automation using Gesture Recognition
Manually collected data using OpenCV and webcam (1000/
category)
Trained CNN model with attention to attain an accuracy of over 99%.
Several Repetitive tasks like voice assistant(self-made), Chrome, Vol
Up/Down etc.were mapped to the categories

Friday
A voice assistant made from scratch to perform several day-to-day
tasks, later integrated with the Gesture Recognition Project