

Amay Chandravanshi

Pune, India

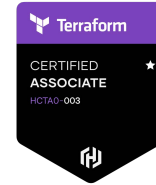
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Institute: Pimpri Chinchwad College of Engineering, Pune

Department: Computer Engineering

Duration of Study: 4 years

CGPA: 9.1/10



EDUCATION

Pimpri Chinchwad College of Engineering, Pune, India

Bachelor of Technology in Computer Engineering

Dec 2021 — May 2025

Cumulative GPA: 9.1/10

WORK EXPERIENCE

Syngenta

Software Engineering Intern

Pune, India

Aug 2024 — Present

- Worked with the **Cloud Engineering Team** (Core Digital Infrastructure), to develop automated scripts for resource deployment in a **multi-cloud setting** (AWS, Microsoft Azure, GCP) using **Hashicorp Terraform**.
- Worked in the **AWS Cost Optimization** project, aimed at reducing the cost of deployed and provisioned resources in AWS, Azure and GCP. Lead a initiative to reduce the **AWS S3 Cost by 28%** using various optimization techniques using to business information.
- Worked with various AWS services like **EC2, S3, Route 53, VPC, ECS, Fargate, RDS**, etc.

Tata Research Design and Development Centre

Product Intern

Pune, India

Jun 2024 — Aug 2024

- Worked with Genetic Algorithms in the Operations Research Domain and created novel algorithm to solve the **Staffing Problem in Human Resource Management**.
- Designed and **implemented a novel** Genetic Algorithm (GA) framework, that is **scalable** and **flexible**. The GA framework is interoperable and is fully **cohesive**, making addition of new functionality **easy, quick** and **intuitive**.
- The results obtained from this endeavour were having a relative error of **less than 5%** with the best optimal known solutions till date.

TLE Eliminators

Competitive Programming Mentor

Gurgaon, India

Mar, 2023 — Oct, 2023

- Reviewed and provided detailed feedback on **1200+** code submissions, resulting in an average improvement of **45%** in mentees' coding techniques and error detection skills.
- Conducted weekly one-on-one mentoring sessions, assisting mentees in improving their code quality and optimizing algorithms, with an average satisfaction rating of **4.8 out of 5**.

Micro NDT Solution and Training Institute

Software Engineer

Pune, India

May 2021 — May 2024

- Conceptualized, crafted, and meticulously managed **dynamic websites** to elevate the online presence of the organization.
- Added **customized plugins** and **10+ features** on the company's website for an upcoming product launch.
- Led an impactful SEO initiative, resulting in an extraordinary **178% surge** in website traffic and user clicks, accompanied by a **70% enhancement** in the **lead-to-customer conversion ratio**.

ACADEMIC EXPERIENCE

Research Intern

Indian Institute of Technology, Patna

Patna, India

Jan 2024 — Jun 2024

- Worked on a **Deep Reinforcement Learning** based Recommendation System
- The recommendation system takes **Natural Language** input from a user, and based on a Reinforcement Learning Model, outputs a recommendation for the user, in **Natural Language**.

PROJECTS

GANalyzer: Find the fake!

Pune, India

- Developed an innovative app where users identify whether an image is from the dataset or generated by the discriminator using a novel GAN approach termed **ACGAN**.
- Surveyed and implemented various **Generative Adversarial Networks**, including **DCGAN**, **StyleGAN**, **CycleGAN**, **CGAN**, and **StackGAN**.
- Led a team of five and authored a comprehensive research paper titled *Evolving Generative Adversarial Networks: A Comprehensive Review and Comparative Analysis*.
- Achieved an accuracy rate of **96.4%** with the novel ACGAN network.

DeepKana: Japanese Script Translator

Pune, India

- Used Pytorch to build a **Siamese Network Architecture** for Image Classification from ground-up.
- Evaluated the model performance on multiple metrics like, 5-way One-Shot Learning, 9-way One Shot Learning, 25-way One Shot Learning.
- Proved the **statistical significance** of the model by achieving a significantly higher accuracy than a Randomized Guessing Model.
- Accuracy: **86.5%**

MoodSense: AI Therapist

Patna, India

- Developed an app that can detect the mood of the user and provide help to the user to elevate their mood.
- Used Pytorch and Keras to build a **RNN, GRU and LSTM** for sentence sentiment classification. Trained the ensemble model on Twitter and Reddit data.
- Achieved a satisfaction rating of **4.5/5** from the users and testers of the app.

RELEVANT COURSES

- Geeks for Geeks Data Analytics Advanced Course
- Intellipaat Cloud Computing Professional Certification
- Linear Algebra and Univariate Calculus
- Multivariate Calculus
- Data Mining and Warehousing
- Machine Learning
- Image and Video Processing
- Honors in Deep Learning (Currently Pursuing)
- Hugging Face's Deep Reinforcement Learning Course

AWARDS AND RECOGNITION

Hashicorp Certified: Terraform Associate	Hashicorp	Aug 2024
Global Rank 41	CodeChef December Long 2022	Dec 2022
Global Rank 154	CodeChef Starters 71B	Sept 2022
4 Stars (Max: 1811)	CodeChef	
ACM Winter School on "Recent Trends in ML"	Indian Institute of Technology, Patna	Dec 2023
ACM Winter School on "Advanced Quantum Computing"	Indian Institute of Technology, Madras	Dec 2022

OTHER EXPERIENCES

Google DSC, PCCOE

Pune, India

AI/ML Head

Aug 2023 — Aug 2024

- Organized 'Alphabyte 1.0', a national level multi-round hackathon under the Anantya 2k24 national event powered by **Linkcode Technologies LLC**
- **Led a team of 15+** passionate individuals, fostering a collaborative environment to drive AI/ML projects and activities.
- Organized workshops, seminars, and training sessions to educate club members and the community about AI/ML technologies.

SKILLS

- **Programming:** C, C++, Python, Java
- **Software:** MATLAB, SQL, PostgreSQL, PowerBI, Tableau
- **Cloud:** EC2, S3, VPC, ECS, Fargate, RDS, Route 53, GCP App Engine, Terraform, Ansible, Jenkins
- **Tools:** Docker, Jenkins, PyTorch, Keras, Tensorflow, JupyterLab, JupyterNotebook, Pandas, NumPy, scikit-learn, OpenAI Gym