

# SHAIK ABDUL SAMAD

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## SKILLS

**TECHNOLOGIES** | Machine Learning, Deep Learning (Computer Vision, Natural Language Processing, Speech Processing), Statistics, Generative AI, RAGs

**LANGUAGES / FRAMEWORKS** | Python, PyTorch, TensorFlow, Scikit-learn, Hugging Face, GitHub, Docker, MongoDB

## EXPERIENCE

- **Infobellit** | Trainee Engineer (Intern) | June 2025 – Present
  - **Client:** AMD
  - Building RAG based system to retrieve benchmark datasets from AMD.
  - **Skills:** Agentic AI, RAG, MongoDB
- **Siemens** | Technical Intern | Nov 2024 - May 2025
  - Exploration of Federated Learning for Domain Adaptation
  - Computer Vision & Time Series Foundation Models
  - Experimenting different methods to improve model performance with FL approach.
  - Distributed and Parallel Computing.
  - Collaborated with a diverse team during Siemens' GenAI Hackathon
  - **Skills:** AI/ML, Federated Learning, PyTorch, Docker, Langchain
- **Freelancer** | Training LLMs through RLHF, Prompt Evaluation | Aug 2024 – Present
- **Robotics Club Co-Ordinator** | IIIT-RGUKT | Jan 2022 – April 2023

## PROJECTS

**Master's Thesis:** Deep Learning Enabled Segmentation, Classification and Probability Risk Assessment of Cervical Cancer Through Feature Extraction

- Implemented Various DL Models for segmentation task and classification task
- Designed a **novel DL architecture (MRF-DCN)** that achieves classification **accuracy around 96%** with fewer learnable parameters compared to existing state-of-the-art models.
- Developed an integrated **Pipeline for segmentation, classification, and probabilistic risk assessment** to improve early detection and prediction of cervical cancer progression.

Implementation of DistilBERT, a distilled version of BERT: smaller, faster, cheaper and lighter | Jan 2024 – April 2024

- Teamed up with 2 students to replicate the research paper.
- Implemented the **BERT model** to train the 'Recognizing Textual Entailment (RTE)' dataset, achieving a score of 64.98, compared to the original paper's score of 69.3.
- Implemented both the **DistilBERT** and **CustomInLawBERT** models to train the "Rhetorical Role Prediction Dataset" as an additional task beyond what was presented in the original paper.

**Bachelor Thesis:** Smart Fatigue Relieve System

- Designed a new system to get relief from tiredness integrating **computer vision** to capture human facial status & **Arduino** for controlling Fan/AC, playing relaxing music, and deploying a small robot to provide water.
- Collected facial expression data from university students of total **400**, preprocessed and annotated to train the **YOLOv3** model for fatigue detection.

## PUBLICATIONS

- *Abdul Samad Shaik, Shashaank Mattur Aswatha, Rahul Jashvantbhai Pandya, "Deep Learning Enabled Segmentation, Classification and Risk Assessment of Cervical Cancer," arXiv preprint arXiv:2505.15505, 2025*

## EDUCATION

**INDIAN INSTITUTE OF TECHNOLOGY DHARWAD (IIT DH)**

**MTech.**, Electrical Engineering – Communications, Signal Processing and Machine Learning

2023-2025 | CGPA: **8.96/10**

**IIIT RGUKT RK Valley**

**B.Tech.**, Electronics and Communication Engineering

2019-2023 | CGPA: **8.75/10**

**IIIT RGUKT RK Valley** | PUC

2017-2019 | CGPA: 8.87/10

**AP Model School** | SSC

2016-2017 | GPA: 10.0/10

## CERTIFICATES

- **Udemy** | Machine Learning A-Z™: Hands-On Python in Data Science
- **Udemy** | Deep Learning A-Z™: Hands-On Artificial Neural Networks
- **Coursera** | Neural Networks and Deep Learning by deeplearning.ai

## ACHIEVEMENTS

- Gate EC 2022 – 2757/54292
- Gate EC 2023 – 3552/45833
- Secured 1<sup>st</sup> Prize in Technical Fest conducted - IIIT RGUKT RK Valley
- CISCO NetAcad – ISTE National Level CODATHON-2020
- JEE Mains 2019 | Percentile 98.7451 | 14504/1147125

## INTERESTS

- LLMs
- RAG
- Reinforcement Learning