

SAQIB SARWAR

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k saqibsarwar | Saqib Sarwar

“And your Lord never forgets.”

Personal Profile

I am a doctoral student with Prof. Piyush Rai in Dept. Of Computer Science & Engineering at IIT Kanpur. I work in the area of general machine learning, deep learning, computer vision and natural language processing. I am a recipient of the prestigious Visvesvaraya PhD Fellowship. Prior to joining IIT Kanpur, I worked as a Project Associate II on a DST sponsored project funded by C3iHub. I have completed my Master's and Bachelor's from Dept. Of Computer Engineering at AMU.

Education

Indian Institute of Technology Kanpur

PhD in Computer Science and Engineering

- Recipient of Visvesvaraya PhD Fellowship

Kanpur, India

Jan 2023 - Current

Aligarh Muslim University

M.Tech in Computer Science and Engineering

- Graduated with Distinction
- M.Tech Thesis - "Risk factors classification for Appropriate Screening of Cervical Cancer."

Aligarh, India

Aug 2019 - Dec 2021

Aligarh Muslim University

BTech in Computer Engineering

- Graduated First Division

Aligarh, India

Aug 2013 - June 2017

Lucknow Public School

High School

- Passed with Distinction
- Specialised in Physics, Chemistry, and Maths with Computer Science

Lucknow, India

Apr 2009 - Apr 2010

Work Experience

Institute of Engineering and Technology

Project Associate II

- Designed a visualisation module to perform comparative univariate & bivariate analysis and multivariate correlation between real and synthetic data.
- Implemented state-of-the-art Copula and GAN models for synthetic data generation.
- Technical Skills:** Python with PyTorch, NumPy, Matplotlib, Seaborn, Pandas, Scikit-learn, Ubuntu Linux, Git, VS Code.
- Soft Skills:** Time Management, Communication, Presentation skills.

Lucknow, India

Apr 2022 - Dec 2022

String Social Networks Pvt. Ltd.

Android Developer

- Developed News based social media app NewsGallery on MVVM pattern.
- Technical Skills:** Java, Kotlin, Retrofit, LiveData, ViewModel, Push Notifications, Glide, Coroutines, Git, Android Studio.
- Soft Skills:** Teamwork, Time Management, Communication.

Delhi, India

July 2017 - June 2019

Academic Experience

Indian Institute of Technology Kanpur

Teaching Assistant

- CS253: Software Development and Operations

Kanpur, India

Jan 2023 - Apr 2023

Aligarh Muslim University

Teaching Assistant

- Network and Embedded Systems Lab

Aligarh, India

Aug 2019 - Dec 2019

University Projects

Hindi to English Machine Translation

Kanpur, India

Indian Institute of Technology Kanpur

Apr 2023

- Developed a Machine translation model based on Transformers to translate English Sentences to Hindi
- Achieved a decent BLEU score of 0.15 for hindi-english translation
- **Technical Skills:** Python with Pytorch, Seaborn, Colab, Kaggle, Overleaf, LaTeX.
- **Soft Skills:** Time Management, Report writing, Logical Thinking.

Sentiment Analysis

Kanpur, India

Indian Institute of Technology Kanpur

Apr 2023

- Designed and implemented various sentiment analysis models using FastText, RNNs and LSTM.
- **Technical Skills:** Python with Pytorch, Seaborn, Colab, Overleaf, LaTeX.
- **Soft Skills:** Time Management, Report writing, Logical Thinking.

Plant Leaves Disease Detection and Classification

Kanpur, India

Indian Institute of Technology Kanpur

Mar 2023 - Apr 2023

- Used State of the art Image classification models Resnet, EfficientNet, MobileNetV3 for plant disease detection.
- Created a custom dataset of healthy and unhealthy plant leaves in real life conditions with 8 species and 16 classes.
- Used Visual AI methods Grad-CAM, Grad-CAM++, ScoreCam to explain model performance
- **Technical Skills:** Python with Pytorch, Seaborn, Colab, Kaggle, Overleaf, LaTeX.
- **Soft Skills:** Report writing, Teamwork, Presentation skills,

Skills

Programming Python (Pandas, PyTorch, NumPy, Scikit-learn. etc.), Java, C/C++, Kotlin, SQL.

Miscellaneous Linux, \LaTeX (Overleaf), Android Studio, VS Code, Microsoft Office, Firebase, Git.

Soft Skills Time Management, Teamwork, Problem-solving, Logical Thinking, Presentation.

Achievements

2023	Recipient , Visvesvaraya PhD Fellowship	India
2022	(196/300) JRF , UGC NET	India
2020	PGT , HTET CS	India
2018	Rank 28 , JEST (IMSc)	India
2017	Rank 32 , JEST (IMSc)	India
2017	98 percentile , GATE CSE	India

Publications

JOURNAL ARTICLES

Predicting Influent and Effluent Quality Parameters for a UASB-Based Wastewater Treatment Plant in Asia Covering Data Variations during COVID-19: A Machine Learning Approach

Parul Yadav, Manik Chandra, Nishat Fatima, Saqib Sarwar, Aditya Chaudhary, Kumar Saurabh, Brijesh Singh Yadav

Water 15.4 (2023) p. 710. 2023

Qualitative and Quantitative Evaluation of Multivariate Time-Series Synthetic Data Generated Using MTS-TGAN: A Novel Approach

Parul Yadav, Manish Gaur, Nishat Fatima, Saqib Sarwar

Applied Sciences 13.7 (2023) p. 4136. 2023

Certifications

Nov 2022 **Deep Learning: Image Recognition**, LinkedIn Learning

Nov 2022 **SQL for Data Analysis**, LinkedIn Learning

Oct 2022 **Data Science with Python**, Skillup by Simplilearn

May 2022 **Computer Vision**, Kaggle

May 2022 **Intro to Deep Learning**, Kaggle

Interests

Photography Though I do not have a professional camera, some of my decent snaps can be found on Instagram here.

Altruism I like contributing in different venues of life. One such example is being a Google Local Guide (Level 9).

Badminton My interest in this sport began during my first year in bachelors. Since then, I have learned a lot.