SHIKHA MALLICK

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EDUCATION

Indian Institute of Technology Palakkad — Palakkad
Master of Science (Research) in Computer Science and Engineering — Jul 2019 – Nov 2021
- **CGPA**: 8.4/10.
- **Coursework**: Deep Learning • Machine Learning • Linear Algebra • Probability Models • Graph Theory.
- **Research Area**: AI in Drug Discovery • Graph Machine Learning • Bioinformatics.
- **Teaching Assistantship**: Programming lab • Data Engineering lab • Machine Learning lab • Deep Learning lab.
- **Positions of Responsibility**: Coordinator of Machine Learning Group • Lecturer at Data Analytics Club • Creative Content Writer and Editor at Alumni Cell Media Body, IIT Palakkad.

United College of Engineering and Research Prayagraj — Prayagraj
Bachelor of Technology in Computer Science and Engineering — Aug 2013 – Jun 2017
- **CGPA**: 8.6/10 (Honors).

EXPERIENCE

Freelancer — Remote
Python Programmer — Oct 2020 – Dec 2020
- Python scripting and teaching Python to students.

PROJECTS

Indian Institute of Technology Palakkad — Palakkad
XGB-EVM: Ensemble Deep Model for Disease Classification from FUNDUS Retina Images — Aug 2021
- Developed an ensemble deep learning model for the automatic detection of eye diseases (eg., glaucoma) from FUNDUS retina images which won the first prize in the "AI for Healthcare" hackathon sponsored by Derbi Foundation and SINE IIT Bombay. Link to the project: https://github.com/mshik/XGB-EVM.

Indian Institute of Technology Palakkad — Palakkad
xDet: Accurate On-the-Fly Covid19 Detector from X-ray Images — Apr 2020 – Jul 2020
- Developed a light-weight deep learning model for the automatic detection of chest diseases (eg., covid19) from chest x-ray images which was able to achieve comparable accuracy and faster predictions as compared to existing models. Link to the Web App: https://creds.iitpkd.ac.in/xdet/.

ACHIEVEMENTS

- **First** prize as a team of three in the "AI for Healthcare Hackathon" sponsored by SINE IIT Bombay and Derbi Foundation.
- Editor for GATE related content on https://gateoverflow.in/.

SKILLS

- **Programming Languages**: Python • C • Java • HTML • SQL.
- **Areas of Interest**: AI in Drug Discovery • Graph Representation Learning • Graph Generative Models • Computer Vision • Bioinformatics • Natural Language Processing.
- **Toolkits**: MXNet • Tensorflow • NumPy • SciPy • Pandas • RDKit • Scikit Learn • SMINA • PyMOL • Biopython • Jupyter Notebook • Google Colab.

CERTIFICATIONS

NVIDIA — Virtual
Building Transformer-Based Natural Language Processing Applications — Jun 2021
- Credential ID: 9b834d90457347fdaee4c8e684e7414e (link)