Abhishek Verma

IIIT Jabalpur Graduate and IIT Kharagpur Post Graduate
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EDUCATION

Indian Institute of Technology, Kharagpur **May 2021**
Masters of Technology in EECE (specializing in Visual Intelligence) *CPI 8.98/10*

Indian Institute of Information Technology, Jabalpur **May 2018**
Bachelor of Technology in Electronics and Communication Engineering *CPI 7.2/10*

WORK EXPERIENCE

Oplus (OnePlus & Oppo) India R&D Center (Aug '21 - Present)
Chief Engineer *(C++ & Java Framework)* *Hyderabad*

- Worked on multimedia display framework and native layer stack in Android ecosystem
- Taken ownership of display features and wrote their native framework in C++
- Implemented platform-level features in upgrades and PDT projects on Qualcomm and Mediatek-based Android devices
- Worked on optimization of power and performance of the features related to Android graphic

Automation Tool Development *Hyderabad*

- Developed an automation test tool for the complete Multimedia team
- Used Python programming language to build the framework robust and scalable
- **Skills:** C++, Java, Shell, Python, System Tracing, GDB

KEY PROJECTS

Smart Audio Search |*Oplus (OnePlus & Oppo) India R&D Center* (Autumn '21)

- Developed an application that can be used to search any audio in audio and video files
- Implemented optimized search for any vocal sentence in audio files

Visual Explanations in Deep Neural Network Models |*Guide : Prof. Saumik Bhattacharya* (July '20-April '21)

- Demonstrated the working of explanation methods for Convolutional Neural Networks with optimal accuracy
- Validation of found methods will be checked on non-euclidean data using Graph Convolution Network

User Authentication by Keystroke Dynamic Data |*Guide: Prof. Sudipta Mukhopadhyay* (Autumn '19)

- Authenticated a set of users based on their typing pattern using Gaussian Mixture Models.
- Achieved the classification accuracy of 85% using GMMs

Illumination Estimation Technique: Color Cat |*Guide : Prof. Prabir Kumar Biswas* (Autumn '19)

- Implement illumination estimation and removal algorithms to achieve color constancy
- Analysed various low-level statistics based methods and compare them with the Color Cat algorithm

University Admission Prediction Using Multiple Linear Regression |*Self Project* (Autumn '20)

- Project was aimed to find the probability of student getting accepted into a particular university based on their profile
- Compare the results of ANN, Linear Regression, Decision Tree and Random Forest

PUBLICATION

Comparative investigation of novel hetero gate dielectric and drain engineered charge plasma TFET for improved DC and RF performance

- Dharmendra Singh Yadav, Abhishek Verma, Dheeraj Sharma, Sukeshni Tirkey, Bhagwan Ram Raad, Superlattices and Microstructures, Elsevier, vol. 111, pp. 123-133, Nov. 2017.

Study of Metal Strip Insertion and its Optimization in Doping Less TFET

- Dharmendra Singh Yadav, Abhishek Verma, Dheeraj Sharma and Neeraj Sharma, Superlattice and Microstructures, Volume 122, Pages 577-586, October 2018.

TECHNICAL SKILLS

Programming Languages	C, C++ (proficient), Java, Python, GLSL
Statistical Softwares	MATLAB, gnuplot, pytorch
Other Softwares	Android Studio, LaTeX, Git, SILVACO