Divyanshu Bhaik

Senior Engineer

Contact

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SKILLS

Programming Languages: Proficient in Python, Familiar with C++
Wireless Technologies: VoWiFi, 4G (IMS, NAS, RRC)
Networking Concepts: TCP/IP, IPSec (IKEv2, ISAKMP)
AI Concepts: Prompting, DNN, CNN (TensorFlow/keras)
Others: Amarisoft, Linux, Git Version Control, VS Code, Wireshark

Experience

Jan 2022 - Present

MediaTek, NOIDA
Senior Engineer **Full-Time | Jun 2022 – Present**

- Feature Owner for "Backup Calling", Increased the Coverage for Feature Test in Lab and Live Network Environment, resulting in 90% reduction in reported Issues
- Implemented Internal Lab Environment and Automation Setup for Testing Emergency Calling Requirements for Verizon, resulting in 30% reduced issues during CCP/DCP
- Developed an AI Assistant (Prompting and RAG) which help in generating JSON format strings used for dynamically setting the Network Parameters for Amarisoft Call-Box

Protocol Testing Engineer **Internship | Jan 2022 – June 2022**

- Development of Automation Test Script using Python
- Implemented APIs to control Network and DUT behavior and APIs to Validate Modem logs from IMS(SIP), N3GPP (ISAKMP, IKEV2) and 3GPP (NAS, RRC)
- Implemented VoWiFi Testing Environment in Lab using Amarisoft Call-Box
- Preforming Various Testing in Lab like SQC, IT, Regression, Functional etc.

Research Intern

Department of CSE, IIT Jodhpur **May 20201 – Jul 2021**

- Worked on a Project for predicting Earthquakes using AI Methods.
- Used "Stanford Earthquake Dataset (STEAD)" from Kaggle as training dataset.
- Worked on the data pre-processing and the finetuning of the AI models like RNN and LSTM based on the results obtained by using evaluation parameters like Accuracy, Sensitivity(recall), Specificity, Precision, F1 Score, Confusion Matrix, etc.

Education

June 2022

National Institute of Technology, Hamirpur, India
Electronics and Communication Engineering
B. Tech. + M. Tech. (Integrated)
CGPA: 8.86/10 (B. Tech.)
CGPA: 8.30/10 (M. Tech.)

Publications

A Deep Learning Based Approach for Automatic Detection of COVID-19 Cases using Chest X-Ray
ELSEVIER - Biomedical Signal Processing and Control · Sep 23, 2021 | 532 Reads, 169 Citations
Used C-GAN for Image Segmentation and Image Feature Extraction Methods like SIFT and BRISK
Combined the acquired Key points with CNN Models like VGG-16, DenseNet-169 for classification
Suggested Method obtained an Accuracy of 96.60%, Sensitivity of 95% and Specificity of 97.4%