Vasanth Gowda M K

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Vasanth Gowda | vasanth-gowda | www.vasanthgowda.com

Education

JSS Academy Of Technical Education (JSSATE) — *Bengaluru, Karnataka*
Bachelor Of Engineering in Electronics and Communication — *Aug 2019 – Present*

Dayananda Sagar Pre-Univerity (DSPUC) — *Bengaluru, Karnataka*
XI , XII — *Jun 2017 – May 2019*

Experience

Vodafone Intelligent Solutions (_VOIS) — *Bengaluru, Karnataka*
AI Development Intern — *Jun 2022 - Oct 2022*

- Developed a smartphone application to detect ASL language with speech Integration.
- Integrated OpenCV and ML model and improved the accuracy over 90 percent.
- Implemented overall Android application logic and the tflite model.

Sain Infomatix — *Remote*
Full Stack Development Intern — *Aug 2022 - Sep 2022*

- Developed a website for Online tutoring service with fully-fledged functionality as per client requirements.
- Implemented overall template design using HTML/CSS and JS.

Projects

SIGN-IFY | *Python, Java, Open CV, Keras, TensorFlow*

- Developed an android application to detect sign language for real-time communication for the deaf and mute community.
- Optimized for seamless and effective communication with inbuilt speech/voice translation.
- Trained the model for 26 classes of alphabets obtaining an accuracy over 92 percent.
- Successfully operated for effective communication with direct translation of sign language to text and speech.

Human Face Mask Detection | *Python, TensorFlow, Keras*

- Developed a CNN model which scans and detects if a person is equipped with a face mask.
- Trained, validated and tested the model with a data set of 12000 images.
- Implemented using VGG19 as a convolution base to achieve an accuracy of over 98 percent.
- Resolved over-fitting by generalizing the data and by using augmentation to achieve a higher accuracy on new set of images.

Osteoarthritis Detection using CNN | *Python, TensorFlow, Keras*

- Developed a CNN model which scans and detects Osteoarthritis in a knee X-ray.
- Trained, validated and tested the model with a data set of 3836 images.
- Implemented using GoogLeNet(InceptionV3) as a convolution base to achieve an accuracy of over 80 percent.
- Increased the accuracy significantly to over 95 percent using data augmentation techniques.

Moving Vehicle Detection | *Python, Open CV, NumPy*

- Developed a Vehicle detecting and tracking system.
- Implemented for real-time moving vehicle tracking in python using Open CV framework.
- Successfully detected moving vehicles in an ongoing traffic with reasonable precision.

Technical Skills

Languages: Java, Python, C, JavaScript, HTML/CSS
Frameworks: ReactJS, Tailwind CSS
Developer Tools: Git, PyCharm
Libraries: pandas, NumPy, Matplotlib, TensorFlow, Keras