NISHITH K VASISHTA

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EDUCATION

University	**Visvesvaraya Technological University**	**2016-2020**

- B.E in Electronics and Communication from K.S.S.E.M, under VTU. GPA: 7.45
- Programming Coursework: Operating Systems; Object Oriented Programming using C++.
- ECE Coursework: Embedded C; Digital Signal Processing; Digital Image Processing.

Pre-University	**Surana Ind PU College**	**2016**

- Major: Computer Science(PCMC)
- Percentage: 80.33

SSLC	**B. E. T Convent**	**2014**

- Percentage: 95.36

SELF-LEARNING AND CERTIFICATIONS

- Completed certification on **Software Development Fundamentals** (MTA: 98-361) by Microsoft.
- Completed certification on **Neural Networks and Deep Learning** by deeplearning.ai.
- Completed 3-month extensive training on **Web Development using ASP.NET** by NTT Data.
- Attended workshop on **Embedded Systems for IoT Applications** by BITES.

PROJECTS

Raspberry Pi based Assistance System for the Visually Impaired
- Developed a device that can detect object in front of the user and provide audio alert about the object.
- Utilized Deep Learning and Image Processing for Object Identification.
- Integrated Ultrasonic sensor to detect and to determine the distance of object from user.
- Incorporated Tesseract to perform OCR allowing the user to get audio output of text in front of them.
- This project was selected as "*The Best Project of the Year*" under 43rd SPP of KSCST.
- Utilized: Python, Tensorflow, Keras, numpy, Raspbian.

Mock Online Food Ordering Website
- Developed a mock website that handles both admin and user part of an online food ordering website.
- Utilized Bootstrap along with HTML, CSS to create attractive Webpages.
- Integrated Entity Framework with MVC5 to interact with database.
- Utilized: C#, ASP.NET MVC5, ASP.NET Framework, JavaScript, jQuery AJAX, Microsoft SQL Server.

Invisibility Cloak (https://github.com/NishVasishta/invisibility_cloak)
- Wrote a Python Script that uses Digital Image Processing to give an invisibility effect to the user.
- Utilized: Python, OpenCV.

Kiosk Application for Restaurants
- Developed a Python Console Application that assists users to order food in restaurants.
- Provides insights on items sold using data science libraries.
- Utilized: Python, pandas, numpy, Matplotlib.

Self-Adjustable Speed Limiter
- Developed a device to automatically adjust max speed of vehicle according to set speed limit of the road.
- Integrated Hall Effect sensors with ESP8266 to detect the speed limit.
- Utilized: Embedded C, Arduino, ESP8266, Hall Effect Sensors.

Languages and Technologies

- *(proficient)*: C#; JavaScript; ASP.NET MVC5; C++; SQL; Angular; Python; *(familiar)*: C; Java; React; Flutter; Dart.
- Visual Studio; Microsoft SQL Server; VS Code; Matlab; Anaconda; Jupyter Notebook; Google Colab;