

# MONNIESH VELMURUGAN

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## EDUCATION

- **University of Wisconsin – Madison** Madison, WI  
Bachelor of Science 2020-2024  
Major : Computer Science

## WORK EXPERIENCE

- **University of Wisconsin - Madison** Madison, WI  
*Undergraduate Research Scholar* September 2020 - Present
  - Perform Convolutional Neural Network tasks in Google Colab
  - Analyze data and commitment to participate in biweekly meeting with other team members
  - Present Poster at Undergraduate Symposium
- **Abwab Institute** Kuwait  
*Assistant Python Tutor* June 2019 – August 2019
  - Assisted the Python Coach in his tutoring classes
  - Thought basics of Python to new beginners
  - Monitored Lab periods
- **Suven Consultants & Technology Pvt. Ltd.** India (Online)  
*Data Analytics project Intern* August 2019 – August 2019
  - Performed data analysis on how the sea affects the climate of the cities along the coast using Pandas, SciKit Learn Library and Numpy
  - Created a simple Optical Character Recognition software to recognize hand-written digits
- **Almeer Technical Services Co. W.L.L.** Kuwait  
*Industrial Automation Systems Intern* July 2018 – August 2018
  - Learned the process on how devices in refinery communicate with each other
  - Learned how to use Delta-V, a program for designing the oil and petrol-based instruments and their working
  - Helped with day-to-day system maintenance

## SKILLS

- **Programming Language** : Python, C++ , JAVA
- **Web Development Language** : HTML5, CSS3, Bootstrap4
- **Database** : MySQL
- **OS Experiences** : Windows, Linux, Mac OS

## PROJECTS

### **Airlines Ticket Reservation**

It helps in maintaining day to day airlines reservation, flight data and booking of flight. It uses a GUI interface coded using Tkinter-Python and stores data in .txt format. It can produce Passenger Ticket, Reservation Slip & Reservation Chart in a printable format.

### **Payroll Management System**

It is a python command-line program that helps in maintaining the salary and pay roll information of all the employees working in a company by storing data as a .txt file. It will produce the salary slip and salary statement for a given month at the month-end or when asked for.

### **My Movie List**

It is a python command line program that helps in recording the movies watched systematically and efficiently with the help of MySQL database. The movies watched are saved along with various parameters such as, title, date of completion, number of episodes, ratings and so on. Movie entries can be searched, edited and deleted through the python command line interface.

### **Stock Market Closing Price Prediction**

This is an on-going interactive project coded using python, operated with ease through Google Colaboratory. In its primitive stage, it can predict and visualize (PyPlot) the closing prices of any company through LSTM Neural Network Model.

### **Cera : Virtual Assistant**

It is an on-going virtual assistant project coded using python. Its makes use of Google cloud text-to-speech API when the device is connected a valid internet connection and sphinx text-to-speech library when the device is not connected to a valid internet connection. It does certain automated stuffs in the computer on voice commands.

## **LEADERSHIP ROLE**

- Vice House Captain of Hope House, Fahaheel Al-Watanieh Indian Private School – High School
- Influential Orator in ‘Green Energy Virumbuvom Project (Rotary Club)’
- Team Leader of Inter-House Debate Competition, 2018
- Titled as ‘Young Contributor’ of [indiansinkuwait.com](http://indiansinkuwait.com) (Official Website for Indian community in Kuwait)

## **EXTRACURRICULARS**

- **Speaker**
  - Awarded 3rd place in ‘Block and Tackle(Extempore)’
  - Awarded 3rd position in Inter-House Debex Competition (Debate + Extempore)
- **Artist**
  - Honored ‘First Class Distinction Score’ in Diploma of Fine Arts, Sarbabharatiga Sangeet-O-Sanskriti Parishad, West Bengal, India
  - Won Numerous Awards
- **Piano**
  - Honored With ‘Silver Medal’ for scoring A+ in Carnatic Vocal and Keyboard Course(Level-II)
  - Awarded 3rd place in ‘Instrumental Music Contest’(played Piano)

## **VOLUNTEER ACTIVITIES**

- **Future Coders (Codegcc.org)**  
*Beginner Camp Tutor*
  - Worked as a tutor in teaching kids up-to age of 16 about the knowledge of logics in coding
  - Helped in organizing classes, Conducted Promotional Events
  - Examiner for Students Selection
- Helped the ‘Rotary Club of India’ in ‘Green Energy Virumbuvom’ program to promote the use of Renewable Sources of Energy

## **BLOGS**

- Blog ‘[monanalytics.wordpress.com](http://monanalytics.wordpress.com)’
  - Explaining the importance of Data Analysis in Machine Learning using Python
- Young Contributor in ‘[indiansinkuwait.com](http://indiansinkuwait.com)’

## **STUDENT ORGANISATIONS**

- Student Council, Fahaheel Al-Watanieh Indian Private School
- Developer Student Club – Google at University of Wisconsin – Madison
- Toastmasters International

## **FOREIGN LANGUAGES**

- English
- French
- Hindi
- Tamil