# HARENDRA K. VERMA

## **MACHINE LEARNING ENGINEER**

Experienced Machine Learning Engineer, with over 5 years of experience in Al Industry, and almost 2 years of experience in engineering analysis. I am an expert in exploratory data analysis for numeric, text and also experience for image datasets. I am a researcher and a problem solver and have the ability to apply Machine Learning or Deep Learning in different industry domains.

# **Work History**

## 2020-03 -Current

## **Data Analytics Engineer**

Vadict Innovations Pvt. Ltd., Vadodara, Gujarat

- Analysing and exploring data from IOT Sensors and creating AI models for predictive maintenance and process automation.
- Build ML/DL solutions for life prediction and anomaly detection for problems such as vibration, oil contamination detection, fault detection.
- Creating DL solutions for objection detection, OCR, NLP etc.
- Al on IOT edge: building Al models for stm32 microcontrollers.
- Developed an entirely new approach for image and text feature fusion using attention neural nets and VQA model based on text generation.

#### 2018-01 -2020-03

# Machine Learning Engineer

Quest Global Engineering Services Pvt. Ltd., Thiruvanantpuram, Kerala

- Predictive analytics solutions created using ML and DL.
- Build nlp solutions for document classification, document filtering and deep learning bots.
- Identified new problem areas and researched technical details to create proof of concept solutions.

## 2016-05 -2018-01

# Aerospace Engineer

Quest Global Engineering Services, Bangalore, Karnataka

- Worked on various projects on gas turbine combustor performance analysis using computational fluid dynamic.
- Regression analysis of Turbofan noise for different OGV positions using Ansys and MATLAB.
- Developed a new learn premixed pre-vaporized combustor design for better emission performance and published the work in ASME GTIndia Conference.

# M.S. Thesis

Tunable Diode Laser Absorption Spectroscopy Sensor creation with species CO and CO2 using HITRAN dataset by mathematical modelling in MATLAB

# **Major Publications**

- CLEF 2020: Harendra K. Verma and Sindhu R., "HARENDRAKV at VQA-Med 2020: Sequential VQA with Attention for Medical Visual Question Answering", 22-25 September 2020, Thessaloniki, Greece.
- ASME GTIndia-2017: Harendra K. Verma and Others, "Flashback and Lean Blow Out study of a Lean Premixed Pre-Vaporized Can Combustor", 7-8 Dec 2017, Bangalore, India
- ASPACC 2013: Harendra K. V., Muruganandam T. M., "TDLAS Temperature Non-uniformity Sensor of CO and CO2", 9th Asia-Pacific Conference on combustion, 19-22 May 2013, Gyeongju, South Korea, page-189

#### **Contact**

#### Address

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#### Phone

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#### E-mail

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#### **Skills**

Python

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**Predictive Analytics** 



**Anomaly Detection** 



**Exploratory Data Analytics** 



Time series Analysis



Forecasting



Machine Learning



Deep Learning



Keras/Tensorflow



OCR/ Zonal OCR



Al on IOT Edge



#### **Education**

M.S. (2015)

Delhi, India

Aerospace Engineering
IIT Madras, Chennai, India

B.E. (2010)
Aeronautical Engineering
Aeronautical Society of India,