

Dhruv Vyas

dhruv.m.vyas@gmail.com | +1-319-930-7029 | LinkedIn: [in/dhruvvyas90](https://www.linkedin.com/in/dhruvvyas90) | Github: [dhruvvyas90](https://github.com/dhruvvyas90) | Google Scholar: [Dhruv Vyas](#)

INTERESTS

Machine Learning, Deep Learning, Data Analytics, Healthcare Systems, Embedded Systems, Signal Processing, Internet of Things, Ubiquitous Computing, Distributed Computing

SKILLS

- **Programming:** Python, Java, Swift, SQL, C, C++, PHP
- **Cloud:** GCE, AWS
- **Tools:** TensorFlow, PyTorch, Jupyter, Weka, MATLAB, Android Studio, XCode

EXPERIENCE

Postdoctoral researcher, University of Iowa

Postdoctoral researcher conducting audiology research

Iowa City, IA

Jan 2023 - present

Graduate Research Assistant in Mobile Systems Lab, University of Iowa

Graduate Research Assistant conducting audiology research

Iowa City, IA

Jan 2017 - Dec 2022

Data & Operations Research Scientist Intern, Principal Global Investors

Graduate intern in Principal Global Investors Data Science team

Des Moines, IA

May 2020 - Aug 2020

Sr. Embedded System Engineer, Archana Automation

In-charge of developing company's HMI based automation products

Junagadh, India

Jan 2014 - Jul 2016

EDUCATION

University of Iowa

Doctor of Philosophy in Computer Science

Iowa City, IA

Aug 2016 - Dec 2022

Birla Institute of Technology and Science - Pilani - Goa Campus

Master of Engineering in Embedded Systems

Goa, India

Aug 2011 - Aug 2013

Dharmsinh Desai University

Bachelor of Engineering in Electronics Engineering

Gujarat, India

Jul 2007 - May 2011

PROJECTS

- Measuring hearing outcomes utilizing smart glass, watch, and phone: (Python, Multi-modal ML, Data Analysis, Signal Processing)
- Personalization of Over-The-Counter Hearing Aids: (NodeJS, Python, Machine Learning, Reinforcement Learning)
- Context Sensitive Audio Sense: mEMA (mobile Ecological Momentary Assessment) for evaluating hearing aids and predicting user success: (Java, Swift, Machine Learning, Android Programming, iOS Programming)
- Kiosk App for Over The Counter Hearing Aid Research: (Android Programming, Signal Processing)
- Social Network Communication Analysis of Middle School Students: (Python, NLP)
- Record and Replay System for Real-Time Operating System: (Zephyr OS, Real-time OS, C)
- PHASER - A phase shifting antenna for low powered directional communication: (C, Wireless networking, Antenna designs)

MISCELLANEOUS PROJECTS

- Qemu RPi Kernels: (Qemu, Virtualization, Kernel building)
 - Github repo: [dhruvvyas90/qemu-rpi-kernel](https://github.com/dhruvvyas90/qemu-rpi-kernel) | 1.9k stars
- RPi libmodbus: (C, Python)
 - Github repo: [dhruvvyas90/libmodbus](https://github.com/dhruvvyas90/libmodbus) | 24 stars
- Local Chirrrp – UIowa Hackathon Project: (Python, Twitter API, Mapbox API)
- EV Charging Station Kiosk: (Python, AWS, RaspberryPi, Arduino, C)

MISCELLANEOUS

- Member of UIowa's Device Advice (2019-2021) student organization that helps educating modern day technologies to elderly adults
- Active member of Raspberry pi stack exchange (Q & A site) community
- Recipient of merit scholarship (40 % fee waiver) during my graduate studies at BITS - Pilani (Goa).