

Dhruv Vyas

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SUMMARY

Experienced software engineer with over 8 years of diverse experience spanning software engineering, data science, and applied machine learning. Strong communicator recognized for fostering collaboration among interdisciplinary teams, delivering impactful solutions at the crossroads of technology and data-driven decision-making

TECHNICAL SKILLS

Languages: Python, Java, Swift, SQL, C, C++

Developer Tools: Git, Docker, Google Cloud Platform, AWS, VS Code

Libraries: TensorFlow, PyTorch, Scikit-learn, Pandas, NumPy, Matplotlib

EXPERIENCE

Data Scientist

Dec 2023 - Present

UFG Insurance

Cedar Rapids, IA

- Investigating and examining the viability of utilizing Conditional GANs to enhance model performance

Postdoctoral Research Scholar

Jan 2023 - Nov 2023

University of Iowa

Iowa City, IA

- Leveraged ARIA smart glasses and Samsung Smart Watches to collect 6000+ data points to drive significant advancements in the field of hearing healthcare
- Formulated a multi-modal ensemble model to improve diagnostics and treatments related to hearing healthcare
- Assessed open-source Large Language Models (LLMs), specifically LLaMa-2, for conducting fundamental Natural Language Processing (NLP) tasks on transcribed audio data

Data and Operations Research Scientist Intern

May 2020 - Aug 2020

Principal Global Investors

Remote

- Designed the python library for standardizing ETL pipelines that were adopted by 8 internal teams at the end of the internship
- Led the efforts in modernizing and establishing standardized data science pipelines (using Apache Airflow) across the department

Graduate Research Assistant

Jan 2017 - Dec 2022

University of Iowa

Iowa City, IA

- Led a research initiative dedicated to creating algorithms that reduced the time needed for hearing aid personalization by 50%
- Designed and maintained smartphone applications and data collection infrastructure to enhance research pertaining to Hearing Aids and cochlear implants, accumulating data from over 1000 participants
- Constructed machine learning models for forecasting hearing outcomes using user surveys and hearing aid data

Sr. Embedded Engineer

Jan 2014 - Jul 2016

Archana Automation

Gujarat, India

- Streamlined and expanded single-board computer-based HMI products
- Introduced data logger product line for industrial applications

EDUCATION

University of Iowa

Iowa City, IA

Doctor of Philosophy in Computer Science

Aug 2016 – Dec 2022

Birla Institute of Technology and Science - Pilani

Goa, India

Master of Engineering in Embedded Systems

Aug 2011 – Aug 2013

Dharmsinh Desai University

Gujarat, India

Bachelor of Engineering in Electronics Engineering

Jul 2007 – May 2011