

# Abhinav Madahar

Scientist-Engineer in Artificial Intelligence

[abhinavmadahar.com](https://abhinavmadahar.com) [github.com/abhinavmadahar](https://github.com/abhinavmadahar) [linkedin.com/in/abhinavmadahar](https://linkedin.com/in/abhinavmadahar)  
[abhinavmadahar@gmail.com](mailto:abhinavmadahar@gmail.com) [+1 \(480\) 399-4228](tel:+14803994228)

## INTRODUCTION

I am a scientist-engineer whose work focuses on artificial intelligence. The end goal of my research is artificial general super-intelligence, and to reach this end, my current focus is on commonsense reasoning, the field which aims to create an artificial intelligence which is able to reason about how the world works. I am available for both engineering-oriented and research-oriented positions.

Following undergrad, I wanted to explore my career options, considering paths in both tech and academia. After leaving Academia.edu, I interviewed to be a software engineer in artificial intelligence at Google. When a hiring freeze was put in place during my team matching, I decided to explore a potential career in academia while I waited for tech hiring to recover. In particular, I developed my expertise in chain-of-thought reasoning, a major subfield of artificial intelligence, through my Finding Adam project. I am now interested in leveraging this expertise in engineering and research roles.

## EXPERIENCE

### ACADEMIA.EDU SOFTWARE ENGINEER

July 2021 – March 2022 • San Francisco, California

Developed core product, focusing on building Academia.edu's new Courses product.

### JOHNSON & JOHNSON DATA SCIENCE CO-OP

April 2020 – September 2020 • Titusville, New Jersey

Discovered the first artificial intelligence model to reliably detect glaucoma without specialized retinal scans.

### RUTGERS UNIVERSITY RESEARCH EXPERIENCE FOR UNDERGRADUATES (REU)

May 2020 – August 2020 • New Brunswick, New Jersey

Spent a summer researching graph theory, focusing on visualization techniques for extremely large graphs.

### ORACLE DATA SCIENCE INTERN

May 2019 – August 2019 • Santa Clara, California

Developed an artificial intelligence model which forecasts cloud server traffic.

### JOHNSON & JOHNSON MEDICAL DEVICES DATA SCIENCE INTERN

May 2018 – August 2018 • Somerville, New Jersey

Helped develop model which detects user physical activity using a wearable sensor.

## PROJECTS

### FINDING ADAM: ADVANCING COMMONSENSE REASONING AS A POTENTIAL STEP TOWARDS ARTIFICIAL GENERAL SUPERINTELLIGENCE

March 2023 – Present

Investigating the use of chain-of-thought reasoning in large language models (LLMs) to achieve artificial general superintelligence. Considering expanding this to a doctoral dissertation if I decide to pursue a career in academia.

[github.com/abhinavmadahar/thesis](https://github.com/abhinavmadahar/thesis)

## EDUCATION

### RUTGERS UNIVERSITY

BACHELOR'S IN COMPUTER SCIENCE  
AND MATHEMATICS

September 2017 – May 2021

## SKILLSET

### SCIENTIFIC AREAS

- Artificial General Intelligence (AGI)
- Generative Artificial Intelligence (GenAI)
- Natural Language Processing (NLP)
- Large Language Models (LLMs)
- Commonsense Reasoning
- Chain-of-Thought Reasoning (CoT)
- Reinforcement Learning (RL)

### LIBRARIES/Frameworks

- Pytorch
- Keras on Tensorflow

### LANGUAGES

- Python
- Javascript and Typescript
- Ruby