# AIDAN ANDREWS

## AI & ML RESEARCHER

#### **PAST PROJECTS**

DEVENEGARAI / AUGUST 2023 - NOVEMBER 2023

#### FULL STACK AI/ML ENGINEER

DESIGNED AND EXECUTED ADVANCED MACHINE LEARNING ALGORITHMS. INCLUDING A SOPHISTICATED CONVOLUTIONAL NEURAL NETWORK (CNN). CRUCIAL FOR ACCURATELY PREDICTING HANDWRITTEN DEVANAGARI CHARACTERS. SIGNIFICANTLY ENHANCING THE FULL-STACK APPLICATION'S FUNCTIONALITY AND USER EXPERIENCE.

VOXAI / DECEMBER 2023 - FEBRUARY 2024

#### SOLE DEVELOPER

ENGINEERED A LINUX-BASED NVIDIA JETSON-NANO POWERED AI LEARNING ASSISTANT. ADEPT AT TRANSCRIBING LECTURES, INTEGRATED WITH A LARGE LANGUAGE MODEL FOR ENHANCED STUDY SUPPORT, OPTIMIZED HARDWARE FOR SCREENLESS OPERATION.

VGG-19 / AUGUST - DECEMBER 2023

#### RESEARCHER

RESEARCHED A VGG-19 CONVOLUTIONAL NEURAL NETWORK MODEL TO CLASSIFY PLANT SPECIES

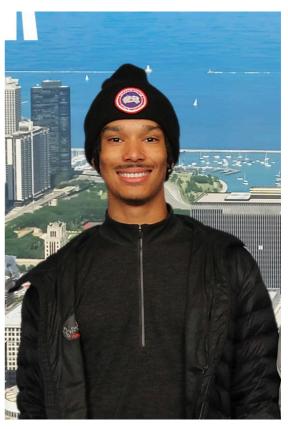
IMPLEMENTED VGG-19 DEEP LEARNING ARCHITECTURE, TRANSFER LEARNING TECHNIQUES, AND A CUSTOM SEQUENTIAL CLASSIFIER WITH DENSE LAYERS

#### **CURRENT PROJECT**

CLIMATEPREDICT / MARCH 2024 - PRESENT

#### ML ENGINEER

CURRENTLY BUILDING AN LSTM IN RUST USING CANDLE TO DEVELOP AN APP THAT TAKES IN A CARBON EMITTING ACTION, DURATION, AND FREQUENCY. AND PREDICTS THE LOCAL CLIMATE EFFECTS OF THIS ACTION.



I AM AN AI AND ML ENTHUSIAST WITH A STRONG FOUNDATION IN PHYSICS AND COMPUTER SCIENCE, DEDICATED TO USING TECHNOLOGY FOR GLOBAL IMPROVEMENT. I AIM TO RESEARCH AND DEVELOP PRACTICAL SOLUTIONS TO REAL WORLD PROBLEMS.

#### CONTACT

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#### **EDUCATION**

UNIVERSITY OF ILLINOIS URBANA-CHAMPAIGN
BACHELORS OF PHYSICS MINOR IN
COMPUTER ENGINEERING

UNIVERSITY OF ILLINOIS URBANA-CHAMPAIGN MASTER OF COMPUTER SCIENCE

#### **SKILLS**

**←** CNN's

★ TENSOR FLOW

\_\_ AI/M

ADLICATION

∠ Linux

HARDWARE

#### **COVER LETTER BY**

# AIDAN ANDREWS

### AI/ML RESEARCHER

#### TO WHOM IT MAY CONCERN

I AM EXCITED TO APPLY FOR THE POSITION AT COMPANY. MY PASSION FOR TECHNOLOGY AND COMMITMENT TO EXCELLENCE HAVE DRIVEN ME TO SEEK A POSITION WHERE I CAN CONTRIBUTE TO ACHIEVING YOUR TECHNICAL OBJECTIVES. MY ACADEMIC JOURNEY, MARKED BY RIGOROUS COURSEWORK AND SELF-DIRECTED LEARNING, HAS PREPARED ME TO TACKLE REAL-WORLD CHALLENGES.

AT THE UNIVERSITY OF ILLINOIS URBANA-CHAMPAIGN. I UNDERTOOK AN INTENSIVE COURSE LOAD, SURPASSING THE STANDARD CREDIT HOURS TO DELVE DEEPER INTO COMPUTER SCIENCE AND ENGINEERING PRINCIPLES. MY ACADEMIC EXCELLENCE, DEMONSTRATED BY TOPPING MY CLASS WHILE MANAGING A HEAVY WORKLOAD, SHOWCASES MY ABILITY TO LEARN AND APPLY COMPLEX MATERIAL SWIFTLY.

OUTSIDE THE CLASSROOM, I HAVE HONED MY PRACTICAL SKILLS THROUGH DIVERSE PROJECTS. FOR INSTANCE, I DEVELOPED AN NFC CARD READER CONNECTED TO A LINEAR ACTUATOR FOR A MECHANICAL SOLUTION TO DOOR ACCESS, A TASK THAT REQUIRED ME TO MASTER NEW SKILLS IN CODING, GEARING, SOLDERING, AND 3D PRINTING—ALL FROM MY DORM ROOM. THESE PROJECTS REFLECT MY INNOVATIVE APPROACH AND MY ABILITY TO LEARN NEW TECHNOLOGIES PROACTIVELY, SUCH AS PROGRAMMING IN UNFAMILIAR LANGUAGES AND MASTERING 3D PRINTING AND CIRCUIT DESIGN INDEPENDENTLY.

MY ROLE AS A TUTOR AND STAFF MEMBER FOR TWO UNIVERSITY COURSES UNDERLINES MY BELIEF IN KNOWLEDGE SHARING AND COMMUNITY GROWTH. THESE EXPERIENCES, COUPLED WITH MY LEADERSHIP IN MANAGING PROJECT TEAMS, HAVE EQUIPPED ME WITH A ROBUST SET OF SKILLS TO CONTRIBUTE TO COMPANY.

AM**EAGER** TO **BLEND** MY **THIRST** FOR KNOWLEDGE WITH THE **EXPERTISE** ΑT COMPANY. CONFIDENT WF THAT TOGETHER. CAN **ADDRESS** THE COMPANY'S CHALLENGES INNOVATIVELY AND EFFECTIVELY.

THANK YOU FOR CONSIDERING MY APPLICATION. I LOOK FORWARD TO THE OPPORTUNITY TO DISCUSS HOW MY SKILLS AND EXPERIENCES ALIGN WITH THE GOALS OF COMPANY.