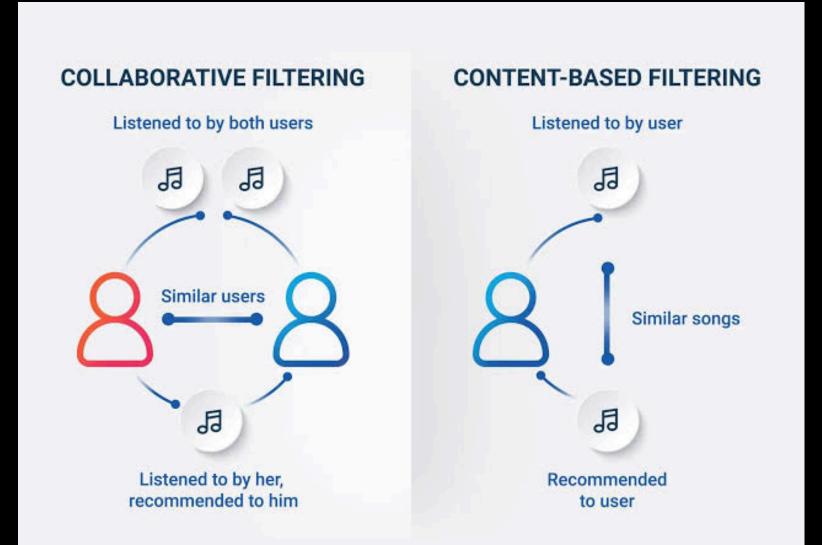




## EVER WONDERED HOW SPOTIFY RECOMMENDS SONGS??

#### **INTRODUCTION TO DEEP LEARNING !!**







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# SWIPE RIGHT TO KNOW AORE ABOUT DEEP LEARNI

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Deep

learning?

POWERING YOUR VOICE ASSISTANT CREATING ART WITH AI FROM CAT PICS TO CANCER DETECTION





## INTRODUCTION

#### **DEEP LEARNING:**

- DEEP LEARNING, A SUBSET OF MACHINE LEARNING, FOCUSES ON ALGORITHMS INSPIRED BY THE STRUCTURE AND FUNCTION OF THE BRAIN CALLED ARTIFICIAL NEURAL NETWORKS.
- IT HAS REVOLUTIONISED VARIOUS FIELDS, SUCH AS COMPUTER VISION, NATURAL LANGUAGE PROCESSING, AND ROBOTICS.
- DEEP LEARNING MODELS CAN AUTOMATICALLY EXTRACT FEATURES FROM RAW DATA, MAKING THEM HIGHLY EFFECTIVE FOR COMPLEX TASKS LIKE IMAGE RECOGNITION, SPEECH SYNTHESIS, AND AUTONOMOUS DRIVING.







## MOTIVATION

- <u>CAREER OPPORTUNITIES:</u> DEEP LEARNING EXPERTISE IS IN HIGH DEMAND ACROSS INDUSTRIES, FROM TECH GIANTS TO STARTUPS. IT OPENS DOORS TO ROLES LIKE DATA SCIENTIST, MACHINE LEARNING ENGINEER, AI RESEARCHER, AND MORE.
- <u>INNOVATION AND IMPACT</u>: DEEP LEARNING DRIVES INNOVATION, SOLVING PREVIOUSLY THOUGHT UNSOLVABLE PROBLEMS. IT CAN BE APPLIED TO HEALTHCARE, FINANCE, ENTERTAINMENT, AND MANY OTHER SECTORS, MAKING A SIGNIFICANT IMPACT.
- <u>CONTINUOUS LEARNING:</u> DEEP LEARNING RAPIDLY EVOLVES WITH NEW RESEARCH, TOOLS, AND TECHNIQUES. THIS ENSURES CONTINUOUS LEARNING AND GROWTH FOR THOSE PASSIONATE ABOUT TECHNOLOGY AND AI.







### ROAD MAP



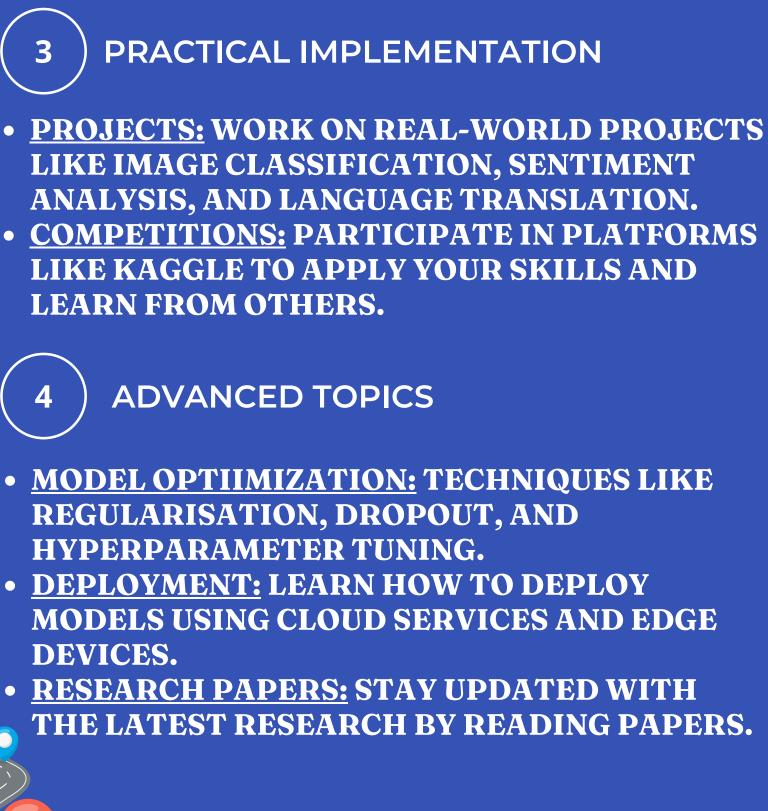
- UNDERSTAND BASIC CONCEPTS OF MACHINE LEARNING (ML).
- LEARN PROGRAMMING LANGUAGES COMMONLY USED IN ML, SUCH AS PYTHON
- STUDY FUNDAMENTAL ML ALGORITHMS AND TECHNIQUES.
  - **2** CORE DEEP LEARNING CONCEPTS
- <u>NEUTRAL NETWORKS:</u> LEARN ABOUT PERCEPTRONS, ACTIVATION FUNCTIONS, AND BACKPROPAGATION.
- <u>DEEP NEUTRAL NETWORKS:</u> STUDY ARCHITECTURES LIKE CNNS, RNNS, LSTMS, AND GANS.
- <u>FRAMEWORKS</u>: GAIN HANDS-ON EXPERIENCE WITH FRAMEWORKS LIKE TENSORFLOW,
- **PYTORCH, AND KERAS.**







### ROAD MAP









#### ROAD MAP



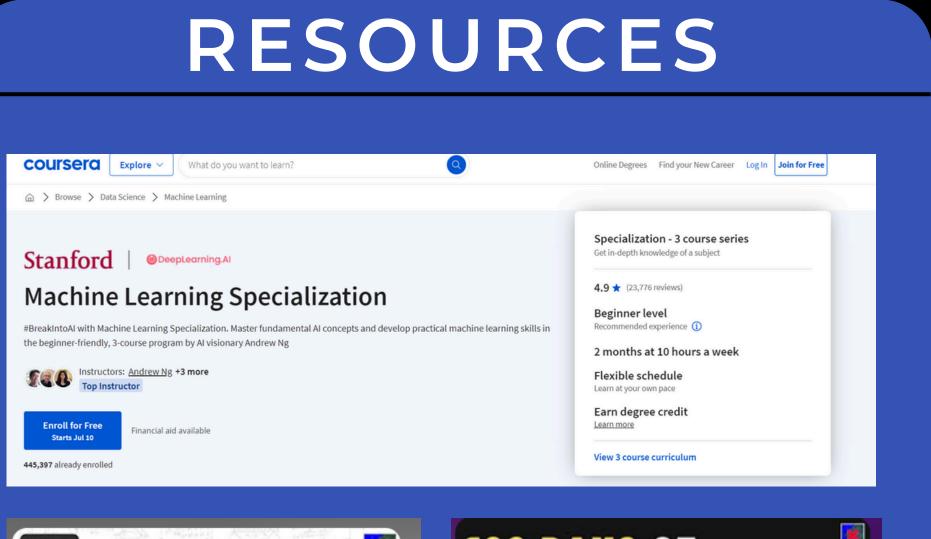
• CHOOSE A NICHE WITHIN DEEP LEARNING, SUCH AS COMPUTER VISION, NATURAL LANGUAGE PROCESSING, OR REINFORCEMENT LEARNING, AND DEEPEN YOUR EXPERTISE.

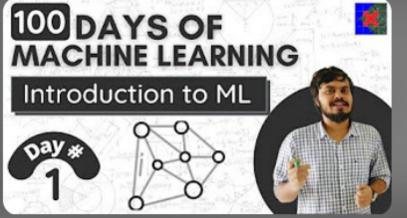












#### 100 Days of Machine Learning

CampusX

132 videos 3,853,327 views Last updated on May 4,...



#### 100 Days of Deep Learning

#### CampusX

80 videos 1,830,850 views Updated today







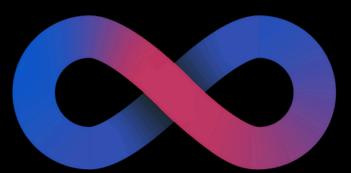
## SUGGESTIONS

- IT MIGHT LOOK LIKE A LOT, BUT BUILDING EVERYTHING STEP BY STEP MAKES IT MUCH EASIER.
- HAVE A GOOD GRIP ON YOUR BASICS LIKE NUMPY, PANDAS, AND MACHINE LEARNING FUNDAMENTALS.
- IT'S CRUCIAL TO UNDERSTAND THE CONCEPTS THOROUGHLY BEFORE DIVING INTO CODING.
- ONCE YOU FEEL GOOD WITH THE THEORY PART, REGULARLY WORK ON PROJECTS AND EXPERIMENTS TO APPLY THEORETICAL KNOWLEDGE.
- IF YOU FEEL STUCK, DON'T FEEL SHY ABOUT SEEKING HELP FROM THE INTERNET OR YOUR SENIORS.
- DO NOT FORGET TO UPDATE YOUR KNOWLEDGE OF GROWING TECHNOLOGY.



## Want to know more?

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