



PRESENTS

SUMMER TRAINING AND INTERNSHIP PROGRAMS



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Solving Session**



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MACHINE LEARNING CURRICULUM

PYTHON PROG. & ENVRION. SETUP

- JUPYTER NOTEBOOK SETUP
- JUPYTER NOTEBOOK WALKTHROUGH
- BASICS OF PYTHON
- OPERATORS & LOOPS
- STRINGS & FUNCTIONS
- DATA STRUCTURES
- **PROJECT 1:** CHATBOT USING PYTHON

PYTHON LIBRARIES & STATISTICS

- GETTING STARTED WITH FILES & IMAGING DATASET
- PYTHON LIBRARIES: NUMPY, SCIKIT-LEARN, PANDAS
- PYTHON LIBRARIES: SEABORN, PYTORCH, MATPLOTLIB
- BASICS OF STATISTICS

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GATEWAY TO TECH MASTERY



- DESCRIPTIVE & INFERENCE STATISTICS
- HYPOTHESIS TESTING
- **PROJECT 2:** PREDICTING IRIS FLOWER SPECIES

✦ ML & ARTIFICIAL INTELLIGENCE

- INTRODUCTION TO ARTIFICIAL INTELLIGENCE
- HOW DATA SCIENCE COMES INTO PLAY
- LINEAR & MULTIPLE REGRESSION
- SUPPORT VECTOR MACHINE
- DECISION TREE & RANDOM FOREST
- CLASSIFICATION ALGORITHMS
- CLUSTERING ALGORITHMS
- FEATURE ENGINEERING
- **PROJECT 3:** AD TARGETING & OPTIMIZATION BASED ON USER BEHAVIOUR AND DEMOGRAPHICS



IMAGE PROCESSING

- FUNDAMENTAL OF IMAGE PROCESSING
- IMAGE PROCESSING TECHNIQUE
- IMAGE PROCESSING ON LIVE WEB CAM
- TAKING A SELFIE WITH OPENCV
- IMAGE MANIPULATION & MASKING
- FACE DETECTION & MANIPULATION
- **PROJECT 4:** IMAGE CLASSIFICATION WITH CIFAR-10

DEEP LEARNING

- KERAS, TENSORFLOW & PERCEPTRON
- MULTI-LAYER PERCEPTRON ARCHITECTURE
- CONVOLUTIONAL NEURAL NETWORKS
- DETAILED IMPLEMENTATION OF CNN MODELS
- RECURRENT NEURAL NETWORK

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GATEWAY TO TECH MASTERY



- LSTM & AUTOENCODERS
- GEN. ADVERSARIAL NETWORK, DEEP REINFORCEMENT
- **PROJECT 5: GOOGLE STOCK PRICE PREDICTION**

NATURAL LANGUAGE PROCESSING

- GETTING STARTED WITH NLP
- MASTERING STRINGS & ASCII CODES
- REGULAR EXPRESSION FROM SCRATCH
- GETTING STARTED WITH SPACY
- TEXT SEQUENCING USING WORD CLOUD
- **PROJECT 6: VOICE ASSISTANT USING PYTHON**

ADVANCED CAPSTONE PROJECT



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ML CAPSTONE PROJECTS



INTELLIGENT VIRTUAL ASSISTANT FOR
VISUALLY IMPAIRED INDIVIDUALS

INTELLITRACK: SMART ATTENDANCE,
PERFORMANCE MONITORING, &
FEEDBACK GENERATION SYSTEM



AI BASED PROBLEM SOLVING MODEL
FOR WOMEN HEALTH

HELMET AND NUMBER PLATE
DETECTION AND RECOGNITION



AI-POWERED CHATBOT FOR
CUSTOMER SUPPORT

HAND GESTURE RECOGNITION



EVALUATION OF SUBJECTIVE ANSWERS
USING MACHINE LEARNING

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GATEWAY TO TECH MASTERY



VOICE-BASED EMAIL SYSTEM FOR BLIND

SMART VOTING SYSTEM
THROUGH FACIAL RECOGNITION



CLASSIFICATION OF BRAIN TUMORS
USING A HIGHLY ACCURATE
ATTENTION-BASED CONVOLUTIONAL
NEURAL NETWORK

PHOTOS COLORING OF OLD AND
BLACK-AND-WHITE IMAGES USING
DEEP CNN



INTELLIGENT CHILD HEALTH AND
SAFETY MONITORING SYSTEM

VIDEO ACTION RECOGNITION



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