POWERED BY 3RI TECHNOLOGIES

ARTIFICIAL INTELLIGENCE

PREMIUM CORPORATE TRAINING

CLASSROOM TRAINING SESSIONS

www.3ritechnologies.com

INDEX

FACULTY

3RI has a team of Artificial Intelligence Working Professionals having 8+ Years of experience in real time scenario in multiple projects.

SUBJECTS & TRACKS

Artificial Intelligence is the best Training in Pune offered by 3RI Technologies which can be an outstanding choice to make. At 3RI Technologies there are certified Artificial Intelligence professionals to give you the best and knowledgeable training.

www.3ritechnologies.com

COURSE FEATURES

3RI Technologies

WEEKENED BATCHES | 2 MONTHS | 60 HRS

Instructor Lead
Weekends Training

New Batches Start
1st & 3rd Week/Month

Enrollment Today
& Avail Discounts

www.3ritechnologies.com

PLACEMENT SUPPORT

Placement at Our Clients Location

Interview Preparartion

Resume Workshop by Experts

Real World Application Integration in Resume

Exclusive Sessions from Experts

Don't Forget!

www.3ritechnologies.com

CURRICULUM

1.Artificial Intelligence

- An Introduction to Artificial Intelligence
- History of Artificial Intelligence
- Future and Market Trends in Artificial Intelligence
- Intelligent Agents – Perceive-Reason-Act Loop
- Search and Symbolic Search
- Constraint-based Reasoning
- Simple Adversarial Search (Game-Playing)
- Neural Networks and Perceptions
- Understanding Feedforward Networks
- Boltzmann Machines and Autoencoders
- Exploring Backpropagation

2. Deep Networks and Structured Knowledge

- Deep Networks/Deep Learning
- Knowledge-based Reasoning
- First-order Logic and Theorem
- Rules and Rule-based Reasoning
- Studying Blackboard Systems
- Structured Knowledge: Frames, Cyc, Conceptual Dependency
- Description Logic
- Reasoning with Uncertainty
- Probability & Certainty-Factors
- What are Bayesian Networks?
- Understanding Sensor Processing
- Natural Language Processing
- Studying Neural Elements
- Convolutional Networks
- Recurrent Networks
- Long Short-Term Memory (LSTM) Networks

3. Machine Learning and Hacking

- Machine learning

CURRICULUM

- Reprise: Deep Learning
- Symbolic Approaches and Multiagent Systems
- Societal/Ethical Concerns
- Hacking and Ethical Concerns
- Behaviour and Hacking
- Job Displacement & Societal Disruption
- Ethics of Deadly AIs
- Danger of Displacement of Humanity
- The future of Artificial Intelligence

4. Natural Language Processing

- Natural Language Processing
- Natural Language Processing in Python
- Natural Language Processing in R
- Studying Deep Learning
- Artificial Neural Networks
- ANN Intuition
- Plan of Attack
- Studying the Neuron
- The Activation Function
- Working of Neural Networks
- Exploring Gradient Descent
- Stochastic Gradient Descent
- Exploring Backpropagation

5. Artificial and Conventional Neural Network

- Understanding Artificial Neural Network
- Building an ANN
- Building Problem Description
- Evaluation the ANN
- Improving the ANN
- Tuning the ANN
- Conventional Neural Networks
- CNN Intuition
- Convolution Operation
- ReLU Layer

CURRICULUM

- Pooling and Flattening
- Full Connection
- Softmax and Cross-Entropy
- Building a CNN
- Evaluating the CNN
- Improving the CNN
- Tuning the CNN

6. Recurrent Neural Network

- Recurrent Neural Network
- RNN Intuition
- The Vanishing Gradient Problem
- LSTMs and LSTM Variations
- Practical Intuition
- Building an RNN
- Evaluating the RNN
- Improving the RNN
- Tuning the RNN

7. Self-Organizing Maps

- Self-Organizing Maps
- SOMs Intuition
- Plan of Attack
- Working of Self-Organizing Maps
- Revisiting K-Means
- K-Means Clustering
- Reading an Advanced SOM
- Building an SOM

8. Boltzmann Machines

- Energy-Based Models (EBM)
- Restricted Boltzmann Machine
- Exploring Contrastive Divergence
- Deep Belief Networks
- Deep Boltzmann Machines
- Building a Boltzmann Machine
- Installing Ubuntu on Windows
- Installing PyTorch

CURRICULUM

9. AutoEncoders

- AutoEncoders: An Overview
- AutoEncoders Intuition
- Plan of Attack
- Training an AutoEncoder
- Overcomplete hidden layers
- Sparse Autoencoders
- Denoising Autoencoders
- Contractive Autoencoders
- Stacked Autoencoders
- Deep Autoencoders

10. PCA, LDA, and Dimensionality Reduction

- Dimensionality Reduction
- Principal Component Analysis (PCA)
- PCA in Python
- PCA in R
- Linear Discriminant Analysis (LDA)
- LDA in Python
- LDA in R
- Kernel PCA
- Kernel PCA in Python
- Kernel PCA in R

11. Model Selection and Boosting

- K-Fold Cross Validation in Python
- Grid Search in Python
- K-Fold Cross Validation in R
- Grid Search in R
- XGBoost
- XGBoost in Python
- XGBoost in R

AMIT SIR

Group Leader
AI Product - L&T

SHRIRAM SIR

AI Specialist

www.3ritechnologies.com

HARIHARAN SIR

Data Scientist

FAQ'S

- **Do I need to purchase any Software?**

  No, we provide necessary installation guides of the software required.

- **What are the specific System Requirements?**

  8 GB RAM, 500GB Hard disk (i3 Processor).

- **What are Projects ?**

  Projects are real world datasets from companies like Gmail, Facebook, flipkart,Amazon, etc. that are provided to our students.

GET IN TOUCH

Have any questions or suggestions?

ADDRESS

3RI Technologies – Pimple Saudagar

405 & 403, Rainbow Plaza, Pimple Saudagar, Pune - 411027

3RI Technologies – Deccan

301, Durgaahsnka, Shubham Hotel Lane, Deccan, Pune -411004

PHONE

+91 830 810 3366 / +91 96238 68215

+91 866 965 3366 / +91 866 965 8215

EMAIL

info@3ritechnologies.com

www.3ritechnologies.com