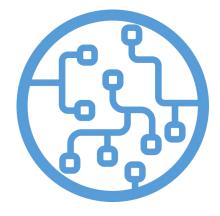


Top-Grade Curricular to get Top-Notch Skills



## MACHINE LEARNING SYLLABUS



WWW.SLAINSTITUTE.COM | +91 88707 67784

SLA Institute: No:10, PT Rajan Salai, KK Nagar, Chennai: 600078 Website: www.slainstitute.com | www.softlogicsys.in | www.slajobs.com Mob: +91 88707 67784 | +91 8608 700340 | +91 8681 884318



## Machine Learning Syllabus

SLA is one of its kind Institute which not only equips you in technology skills but will train you for free in Aptitude skills, Soft Skills, Mock Interviews, Interview Skills, Work ethics and Corporate Values that you need to know to get into IT Industry. Our training is given by expert real time development experienced trainers and we enable each and every student of ours to do their own real time projects by the end of the program.

We do not buy you a job by bribing companies to secure a place in IT, instead we equip you with the skills needed to get employed in IT and will support you with unlimited number of relevant interview opportunities so that your career in IT becomes assured. Our support will be there until you get placed in an IT Company as that's our mission too.

If you want to just have an IT certification, you can do your course anywhere. If you aspire to get into an IT Job, then you should choose SLA. With SLA, your IT dream will definitely come into reality.

Please go through the long list of our student reviews / offer letters @ www.joinsla.com to get to know more about us.

- Introduction
- What is ML?
- Visualization
- Data, Problems and tools
- Matlab
- Linear Classification
- Perceptron update rule
- Perceptron convergence
- Generalization
- Maximum margin classification
- Classification errors
- Regularization
- Logistic regression
- Linear regression, estimator bias and variance, active learning
- Kernal regression
- Support vector machine (SVM) and kernels
- Kernel optimization
- Model selection
- Model selection criteria
- Description length, feature selection

SLA Institute: No:10, PT Rajan Salai, KK Nagar, Chennai: 600078 Website: www.slainstitute.com | www.softlogicsys.in | www.slajobs.com Mob: +91 88707 67784 | +91 8608 700340 | +91 8681 884318



- Combining classifiers, boosting
- Boosting, margin, and complexity
- Margin and generalization, mixture models
- Mixtures and the expectation maximization (EM) algorithm
- EM, regularization, clustering
- Clustering
- Spectral clustering, Markov models
- Hidden Markov models (HMMs)
- Bayesian networks
- Learning Bayesian networks
- Probabilistic inference
- Guest lecture on collaborative filtering
- Current problems in machine learning, wrap up

Are you happy with our course curriculum? Then why you delay? Take your mobile phone and ring us quickly on +91 88707 67784.