

AI / ML

Python For AI / ML

- Introduction to python Programming
- Syntax, Variables, Data Types, Input/output
- Conditionals. Loops, Functions
- Lists, tuples Set and Dictionaries
- Probability Concepts, Aundions

Machine Learning

- Linear Algebra
- Statistics
- Probability

Core Machine Learning

- Regression
- Decision Trees
- Clustering
- Model Evaluation

Real World ML Projects

- 2 Full ML Projects
- Feature Engineering
- Real World datasets and Mini team Presentation

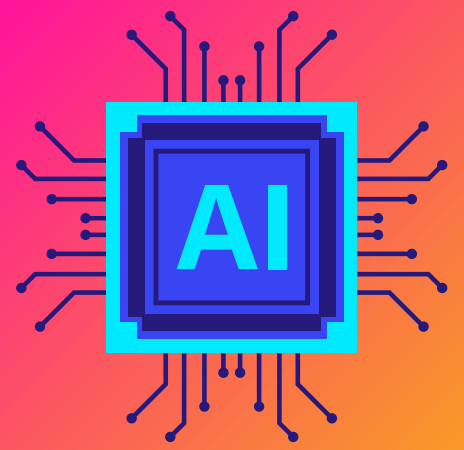
Deep Learning With Tensorflow/ Keras

- Intro to Deep Learning and Perceptron's
- Building ANNs With Keras
- CNN for Image Classification
- RNN for text Classification (LSTM, GRU)
- DL Projects: Image or Text based Model

Capstone Projects

- Project Planning
- Model Development
- Testing & Evaluation
- Final Presentation





AI / ML

Placement & Portfolio Prep

- Project Planning
- Model Development
- Testing & Evaluation
- Final Presentation

Advanced AL Add-ons

- Prompt Engineering and ChatGPT Tools
- LangChain and Vector Databases
- Basic of LLM fine tuning (open source models)
- Computer Vision with OpenCV
- NLP with Hugging Face Transformers
- MLOps & Model Deployment (Gradio / Streamlit)



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