

Al Expert Roadmap Step 1: Maths

- 1. Algebra
- 2. Calculus
- 3. Mathematical Analysis
- 4. Statistics, including Central Limit
- 5. Probability and Sampling
- 6. Hypothesis Testing

7. AB Testing 20 days

AI & DATA SCIENTIST IIII ROADMAP

AI Expert Roadmap Step 2: Python/R

- 2. Control flow
- 3. Functions and modules
- 4. NumPy
- 6. Matplotlib and Seaborn

- 9. Data preprocessing 10. Jupyter Notebooks

Al Expert Roadmap Step 3: Understand ML Lifecycle

- Problem Definition
 Data Collection
 Data Preprocessing
- 4. Exploratory Data Analysis (EDA)
- 5. Model Selection
- 6. Model Training
- 7. Model Evaluation
- 8. Model Tuning 9. Deployment
- 1 Day (Just Understand)

AI Expert Roadmap Step 4: Master

Simple ML Algos

- Linear Regression
 Logistic Regression

- 5. Support Vector Machines (SVM)
- 6. K-Nearest Neighbors (KNN)
- 7. Naive Bayes
- 8. K-Means Clustering
- 9. Principal Component Analysis (PCA)
- 10. Gradient Boosting Machines (GBM)
- 11. K-Means
- 12 DBScan
- 24 days

Al Expert Roadmap Step 5: Master **Deep Learning**

- 2. Feedforward Neural Networks (FNN)
- Convolutional Neural Networks (CNN)
 Recurrent Neural Networks (RNN)

- (GAN)
- 9. Deep Belief Networks (DBN) 10. Transformer Models