



AI ROADMAP 2025

Easy Guide



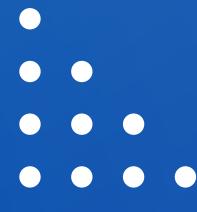
Data Science

Machine Learning Engineer

Deep Learning Engineer

AI Engineer

Agentic AI Engineer



Monal Kumar

DATA SCIENCE

PYTHON

PROGRAMMING
LANGUAGE

Analytics + Computation

NUMPY + PANDAS / POWERBI / TABLEAU / EXCEL

Visualization

MATPLOTLIB / SEABORN /
POWERBI

EDA

ANALYSIS + FEATURE
ENGINEERING

Statistics

FOUNDATION + DISTRIBUTION + TESTS +
PROBABILITY

Database

SQL + NO-SQL DATABASE

ML

MACHINE LEARNING

GIT

VERSION CONTROL

MACHINE LEARNING

PYTHON

PROGRAMMING
LANGUAGE

Analytics + Computation

NUMPY + PANDAS / POWERBI / TABLEAU / EXCEL

Visualization

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EDA

ANALYSIS + FEATURE
ENGINEERING

Statistics

FOUNDATION + DISTRIBUTION + TESTS +
PROBABILITY

Database

SQL + NO-SQL DATABASE

ML

MACHINE LEARNING

DL

CORE DEEP LEARNING

GenAI

NLP BASED GENAI

GIT

VERSION CONTROL

Deployment

MODEL HOSTING



Monal Kumar

DEEP LEARNING

PYTHON

PROGRAMMING
LANGUAGE

Analytics + Computation

NUMPY + PANDAS / POWERBI / TABLEAU / EXCEL

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POWERBI

EDA

ANALYSIS + FEATURE
ENGINEERING

Statistics

FOUNDATION + DISTRIBUTION + TESTS +
PROBABILITY

Database

SQL + NO-SQL DATABASE

ML

DL (CV + NLP)

MACHINE LEARNING

CORE DEEP LEARNING + COMPUTER VISION L2 +
NATURAL LANGUAGE PROCESSING L2

GenAI

CV + NLP BASED GENAI

GIT

Deployment

VERSION CONTROL

MODEL HOSTING

AI ENGINEER

PYTHON

PROGRAMMING
LANGUAGE

Analytics + Computation

NUMPY + PANDAS / POWERBI / TABLEAU / EXCEL

Visualization

MATPLOTLIB / SEABORN /
POWERBI

EDA

ANALYSIS + FEATURE
ENGINEERING

Statistics

FOUNDATION + DISTRIBUTION + TESTS +
PROBABILITY

Database

SQL + NO-SQL DATABASE

ML

DL (CV / NLP)

MACHINE LEARNING

CORE DEEP LEARNING + (COMPUTER VISION L1 /
NATURAL LANGUAGE PROCESSING L1)

GenAI

CV / NLP BASED GENAI

API

Deployment

RESTAPI'S

MODEL HOSTING + CLOUD INFERENCE

SD

AI BACKEND
DEVELOPMENT

GIT

Agents + RAG

VERSION CONTROL

RAG + AGENTIC FRAMEWORKS L1 / L2

AGENTIC AI ENGINEER (MINIMUM REQ)

PYTHON

PROGRAMMING
LANGUAGE

SD

BETTER ENGINEERING SKILLS

Visualization

MATPLOTLIB / SEABORN /
POWERBI

LLM'S

PROMPT ENG. +
INFERENCE

Statistics

BASIC + TESTING

Database

VECTOR DATABASE

ML

MACHINE LEARNING

DL (CV / NLP)

CORE DEEP LEARNING + (COMPUTER VISION L1 /
NATURAL LANGUAGE PROCESSING L1)

GenAI

CV + NLP BASED GENAI L2

API

RESTAPI'S

Deployment

MODEL HOSTING + CLOUD INFERENCE

Agents + RAG

RAG + AGENTIC
FRAMEWORKS L1

GIT

VERSION CONTORL

AGENTIC AI ENGINEER (IDEAL)

PYTHON

PROGRAMMING
LANGUAGE

SD

BETTER++ ENGINEERING SKILLS

Visualization

MATPLOTLIB / SEABORN /
POWERBI

LLM'S

PROMPT ENG. +
INFERENCE

Statistics

BASIC + TESTING

Database

SQL + NO-SQL + VECTOR
DATABASE

ML

MACHINE LEARNING

DL (CV / NLP)

CORE DEEP LEARNING + (COMPUTER VISION L1 /
NATURAL LANGUAGE PROCESSING L1)

GenAI

CV / NLP BASED GENAI L2

API

RESTAPI'S

Deployment

MODEL HOSTING + CLOUD INFERENCE

Agents + RAG

RAG + AGENTIC
FRAMEWORKS L2

GIT

VERSION CONTROL