EAKSPHERE Academy

Technology Programs

Technology Programs Introduction

This catalog highlights the detailed curriculum, recommended faculty expertise, and career outcomes for three specialized technology programs Software Programming Languages, AI/ML - Beginner to Advanced, and Data Science & Analytics.

Software Programming Languages

Curriculum

- Fundamentals: variables, loops, functions, data types
- Object-Oriented Programming (Python, Java, C++)
- Basics of Web Development (HTML, CSS, JavaScript)
- Debugging, Testing, and Version Control (Git/GitHub)
- Mini Projects – calculators, automation scripts, web apps

Faculty Expertise

- Software engineers with multi-language proficiency (Python, Java, C++)
- Industry experts in application development and system design
- CS faculty experienced in teaching programming fundamentals

Career Outcomes

- Junior Software Developer / Programmer
- Web Developer (entry-level)
- Application Support Engineer
- Progression to specialized roles (AI, Data Science, Cloud)

AI/ML – Beginner to Advanced

Curriculum

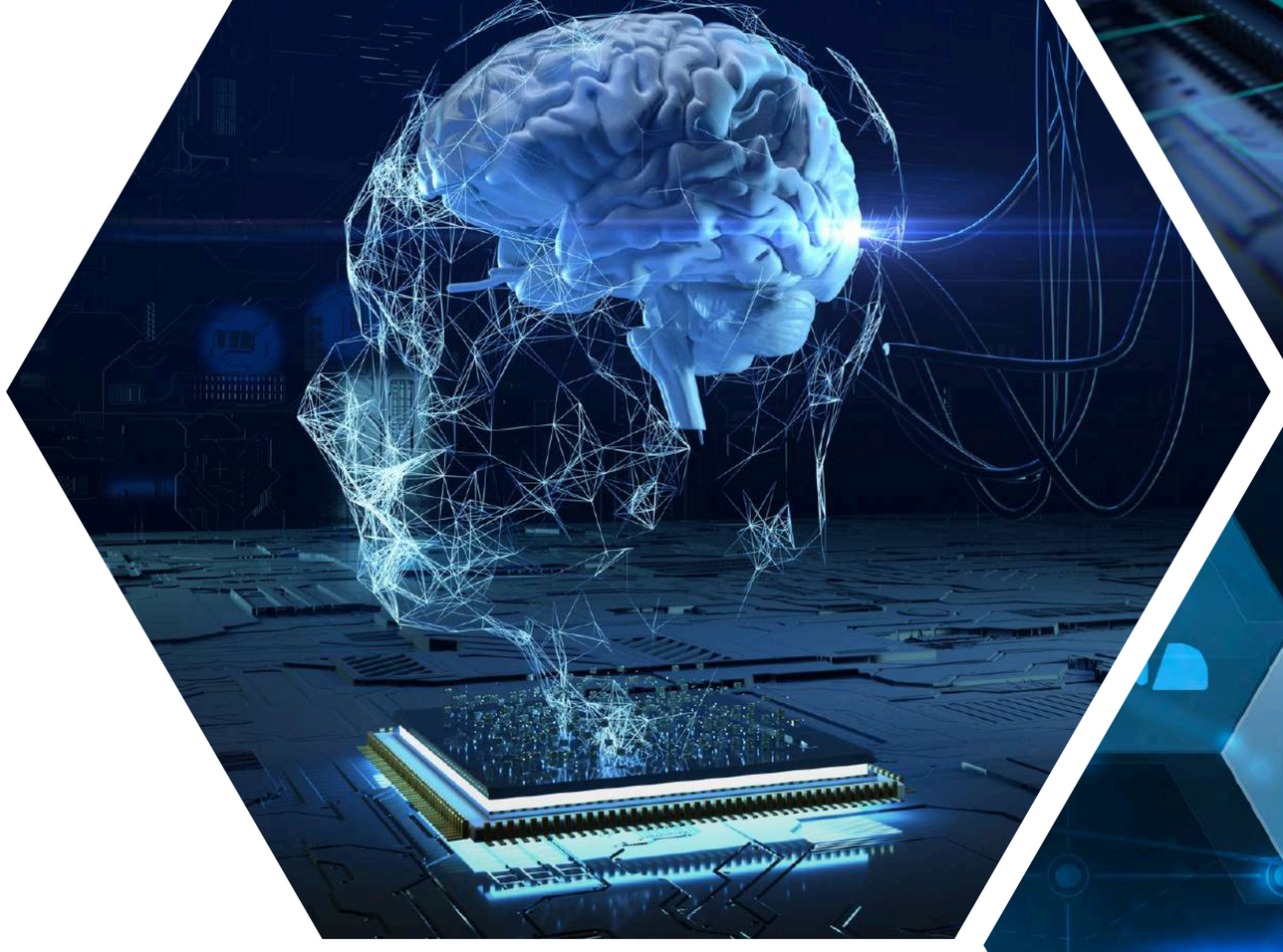
- AI & ML fundamentals (classification, clustering, regression)
- Data preprocessing & feature engineering
- Deep Learning with TensorFlow & PyTorch
- Natural Language Processing (NLP)
- Advanced Topics: Reinforcement Learning, Generative AI, LLMs
- Model Deployment & MLOps practices
- Capstone Project – real-world AI/ML implementation

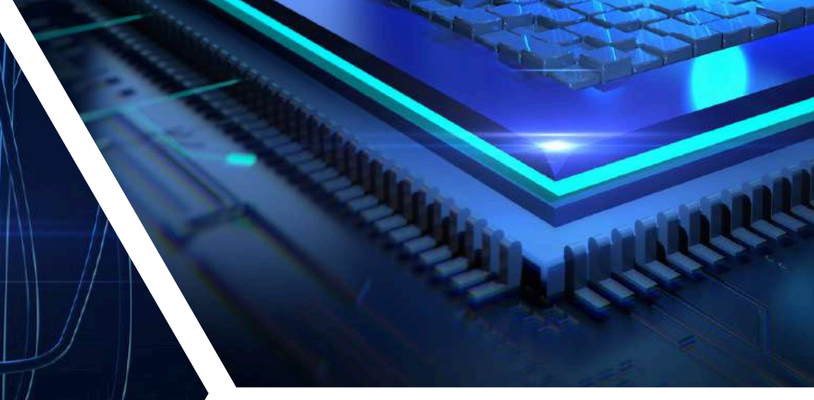
Faculty Expertise

- AI/ML practitioners with deployment experience in industry
- Data scientists skilled in model building & automation
- Professors specializing in AI theory & research applications

Career Outcomes

- Machine Learning Engineer
- Data Scientist / AI Analyst
- Research Associate (AI/ML Labs)
- Roles in Generative AI, Robotics, Predictive Modeling





Data Science & Analytics

Curriculum

- Data wrangling, cleaning & preprocessing (Python, R)
- Exploratory Data Analysis (EDA) & visualization (Tableau, Power BI)
- Applied Statistics & Probability for decision-making
- Predictive Modeling & Machine Learning fundamentals
- Big Data Tools overview (Hadoop, Spark basics)
- Business Analytics & Storytelling with Data
- Capstone Project – solving a real-world business problem

Faculty Expertise

- Data scientists & statisticians with applied industry expertise
- Business analysts specializing in BI tools (Tableau, Power BI)
- Academics with experience in advanced analytics & ML methods

Career Outcomes

- Data Analyst / Business Analyst
- Junior Data Scientist
- BI & Reporting Specialist
- Data Consultant supporting strategic decision-making

Contact Us

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