

# Certificate in Foundations of Data Science and Artificial Intelligence with Python



"Ready to dive into the world of data science and web development? Consider enrolling in a Certificate in Foundations of Data Science and Artificial Intelligence." Certificate in Foundations of Data Science and Artificial Intelligence with Python and Building Dynamic Applications with Flask and Django Frameworks is a comprehensive course designed to equip you with the essential skills and knowledge to work effectively with data science and artificial intelligence concepts using Python and popular web frameworks. It covers data analysis, visualization, machine learning, and web development using frameworks like Flask and Django. You will learn to use tools like Anaconda, Jupyter Notebooks, and PyPI, perform numerical operations with Numpy, manipulate data with Pandas, preprocess data, and create visualizations with Matplotlib.



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## Syllabus & Skills covered (60 hours)



- **Data Science Fundamentals:** Understanding data science principles, tools, and mathematical concepts.
- **Data Manipulation and Analysis:** Using Python libraries like NumPy and Pandas for efficient data handling and analysis.
- **Data Visualization:** Creating meaningful visualizations using Matplotlib for exploratory data analysis.
- **Real-World Applications:** Examining real-world case studies in data science to understand its applications.
- **Artificial Intelligence:** Exploring the fundamentals of artificial intelligence and machine learning.
- **Web Development with Flask:** Building web applications using the Flask framework, including server startup, templates, and database integration.
- **Web Development with Django:** Understanding Django's architecture, features, and creating web applications using Django.

## Career Opportunities



- **AI/ML Assistant**
- **Python Developer**
- **Python Programmer Assistant**
- **Business Intelligence (BI) Trainee**
- **Junior Data Analyst**



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