\*\*M.A.D Bootcamp - Program Journey & Course Outline\*\*  
  
\*\*Course Overview\*\*  
  
1. Predictive AI  
 \* Introduction to Predictive AI  
 \* Real Use Cases  
 \* Fundamental of Data Analysis  
  
2. Large Language Model (LLM)  
 \* Introduction to LLM  
 \* Get to Know LLM API  
 \* Prompt Engineering Basics  
 \* LLM API for Beginners  
 \* Leveraging LLM API  
  
3. Human AI Interaction  
 \* Principle of Human AI Interaction  
 \* Introduction to HCI  
 \* Ideation & Brainstorming  
 \* Interface Design and Evaluation  
 \* Human & AI  
 \* Content and Conversational AI  
 \* Augmented Intelligence  
 \* Future Trends and Challenges  
 \* Apply Human & AI  
 \* Generating an image using stable diffusion  
 \* Retrieval-Augmented Generation (RAG) with LangChain  
  
\*\*Course Outline\*\*  
  
\*\*Module 1: Predictive AI\*\*  
  
Students will encounter methods for studying data, delving into the skills of building AI models to predict the future and confidently use data in decision-making. This involves using advanced mathematical, statistical, and Machine Learning techniques combined in data analysis.  
  
Total hours in this Module: 15 hours  
  
\*\*Predictive AI - Course Outline\*\*  
  
Lesson 1: Introduction to Predictive AI  
 \* What is AI?  
 \* Introduction to Data  
  
Lesson 2: Real Use Cases  
 \* Example of predictive AI capabilities  
 \* Overview of designing and building AI systems through real-world use cases  
 \* Workflow for building predictive AI  
  
Lesson 3: Fundamental of Data Analysis  
 \* Introduction to data analysis  
 \* Data analysis pipeline and exploratory data analysis (EDA)  
 \* Data Visualization  
 \* Introduction to google colab & Data Visualisation lab  
  
Lesson 4: Principle of Machine Learning  
 \* Introduction to Machine Learning  
 \* Major of machine learning models (Supervised learning, Unsupervised learning)  
 \* Overfitting and Underfitting in supervised learning problem  
 \* Train-test-validation split  
 \* Example of real use case in supervised learning problem  
  
KBTG Kampus ClassNest  
  
Page 3