

AI GENESIS

Event Report

Introduction

The AIML Bootcamp, AI GENESIS, organized by Google Developer Student Clubs MJCET, aimed to provide participants with comprehensive knowledge, hands-on experience, and practical skills to enable them to build projects in the field of AI&ML, and to foster the spirit of collaborative learning. The bootcamp spanned over a period of five days, beginning on 03rd February, 2024 and concluding on 08th February, 2024, and covered various topics ranging from introductory concepts to advanced techniques in AI&ML. Each day consisted of informative sessions and hands-on sessions, offering participants a holistic learning experience.

DAY 1 - Python, TensorFlow, Keras, Deep Learning, Neural Networks

The bootcamp commenced with a comprehensive session on Python basics, laying a solid foundation for participants. This was followed by an exploration of TensorFlow libraries and an in-depth discussion of deep learning concepts. Participants were introduced to Keras for building and training neural networks. Hands-on sessions allowed participants to implement their learnings in real time, solidifying their understanding of these fundamental concepts.

DAY 2 - Python basics, TensorFlow libraries

Building upon the previous day's learnings, on day two we delved deeper into Python basics and TensorFlow libraries. Participants engaged in practical exercises to reinforce their understanding of Python programming concepts and TensorFlow functionalities. Through interactive hands-on sessions and quizzes, participants honed their skills and gained confidence in utilizing these tools for building AI and ML projects.

DAY 3 - Python libraries, Neural Networks, Regression Analysis

Day three focused on exploring additional Python libraries essential for development of AI models. Participants learned about various neural network architectures and techniques for regression analysis. Hands-on sessions provided participants with the opportunity to implement regression models and analyze real-world datasets. The day concluded with participants gaining valuable insights into leveraging Python libraries for building predictive models.

DAY 4 - NLP, Sentiment analysis, Computer vision

The fourth day of the bootcamp explored the exciting domains of natural language processing (NLP), sentiment analysis, and computer vision. Participants learned how to preprocess text data, perform sentiment analysis using machine learning techniques, and apply computer vision algorithms for image recognition tasks. Practical exercises

enabled participants to apply these techniques to analyze textual and visual data, further expanding their skill set.

DAY 5 - ML, Transfer Learning, Classification

The final day of the bootcamp focused on machine learning fundamentals, transfer learning, and classification algorithms. Participants learned about the principles of machine learning, techniques for transfer learning, and classification algorithms to train the model to classify and differentiate between objects. The day concluded with a hands-on project where participants applied their knowledge to build an AI model that could differentiate between clothing items and accessories, showcasing their newfound learnings. Finally, the execom shared their experiences and gave invaluable advice to the audience regarding navigating internship opportunities, networking, and skill building, and urged them to remain resilient in the face of obstacles.

Conclusion

AI Genesis organized by GDSC MJCET proved to be a resounding success, providing participants with a comprehensive understanding of AI&ML concepts and equipping them with practical skills essential for real-world applications. Through informative sessions, hands-on workshops, and quizzes participants gained valuable insights into topics crucial for success in this field. The bootcamp not only fostered a collaborative learning environment but also motivated participants to explore further opportunities in the field of AIML, inspiring the next generation of AI and ML enthusiasts.