**9617 – TIS Template**

**Part 1**

## Title: Learning Python Artificial Intelligence by Example

## Product ID: V09617

**Link to outline:** https://epic.packtpub.com/index.php?module=oss\_Books&offset=1&stamp=1542079280083914900&return\_module=oss\_Books&action=DetailView&record=86e86719-1853-acf9-fe84-5aba0affe3bc

**Commercial priority:** Alpha

**Series:** Learning

**Part 2**

**Subtitle:** Build practical algorithms for NLP chatbots, facial recognition, taxi trip duration and self-driving cars with Python

**Packtpub metadescription:** Build practical algorithms for NLP chatbots, facial recognition, taxi trip duration and self-driving cars with Python. No AI experience required!

**Key features**:

[\*]Hands-on examples to simplify your first steps into the world of Artificial Intelligence with Python

[\*]Get well-versed with AI concepts and get up-and-running with AI in no time

[\*]Example-based approach to developing powerful neural networks quickly using the best machine learning methods

**Short description:** Python has surfaced as a dominant language in AI/ML programming because of its simplicity and flexibility. It enjoys great support from open source libraries such as scikit-learn and TensorFlow. By the end of this course, you will be confident enough to build your own AI projects with Python, and ready to take on more advanced content as you progress.

**Long description:** Python has surfaced as a dominant language in AI/ML programming because of its simplicity and flexibility. It has great support for open-source libraries such as Scikit-learn and TensorFlow.   
Built for rookie AI enthusiasts across four realistic projects, this course covers modern techniques that make up the world of Artificial Intelligence. Dive into your first natural language processing project, build a facial recognition system, and build your very own self driving steering code. You will explore the use of neural networks and deep learning, and how you can train and test sets for feature extraction. You'll be introduced to the Keras deep learning library, which you will use to predict taxi journey times, and to the use of natural language processing to find the most relevant articles in Wikipedia.

By the end of this video course, you will be confident enough to build your own AI projects with Python, and ready to take on more advanced content as you move on.

**What you will learn**

[\*]Create your own NLP chatbot using Python AI

[\*] Use open source, SaaS and custom-built algorithms to identify faces in pictures and video

[\*]Understand data-mining methods, and how to work with multiple data sets when building a model

[\*] How feature engineering works to get the most value from the data

[\*]Apply open data and deep learning to predict taxi journey times in New York City

[\*] Use convolutional neural networks to determine an appropriate steering angle for a self-driving car

**Audience:** This course is for Python developers who want to take their first steps into the world of Artificial Intelligence solutions with easy-to-follow projects. All you need to know is the basics of Python and a little bit of Deep Learning knowledge, and you're good to go.

**Approach:** Built for amateur AI enthusiasts and using realistic examples, this course covers modern techniques that make up the world of Artificial Intelligence.

**Part-3**

**Author biography:** Mark Strefford is a technologist focusing on delivering value through customer-focused ML, AI, and digital technologies. He has a strong track record in designing, developing and deploying customer-facing enterprise-grade services and platforms. He excels in leading teams that build these systems, working with senior and board-level stakeholders to deliver the business vision.

He is a serious techie who also works closely with senior management and board-level stakeholders, acting as an intermediary between business visionaries, technical teams, and external vendors. He has led multiple successful digital/technical transformations in the private and public sectors, and with international delivery teams across Europe, India, and the USA. He has an innovative approach to technology delivery, looking at upcoming technology trends to determine their suitability for business needs. He frequently performs multiple roles over the lifespan of a project, equally adept at running workshops, developing proofs of concept, architecting a production solution through to leading the technology teams. He is fully experienced in leading agile delivery programs, including mentoring teams and stakeholders moving from more traditional development approaches to agile. He fully embraces a risk-based, test-driven agile delivery methodology, looking to adopt continuous delivery where applicable for the organization.

**Amazon Keywords:** Deep Learning, Machine Learning, Recurrent Neural Network ,Convolutional Neural Network, Python, Python programming, Python Deep Learning, neural network, Artificial Neural Network, Deep Learning examples, Python Artificial Intelligence, Python AI

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