

EDSP Challenge Mentoring Program - Python

Agenda

- Your Python Topic Leaders
- What is Python & why is it important?
- Introduction to the topic materials
- Contact details
- Office hours
- Questions & Discussions

Python Topic Leaders

Paolo Colecchia



I'm a Data & AI Cloud Solution Architect based in the UK focusing on our Azure AI portfolio. I have experience across different industries in designing AI solutions, implementing ML models and helping our customers productionise them. Prior to joining Microsoft, I was selling, designing and implementing Advanced Analytics solutions for various customers across several industries in EMEA. My educational background is in Computer Engineering and Telecommunications. When I'm not working I enjoy spending time with family and playing football.

Nicole Serafino



I joined Microsoft last year as a CSA on the US National Team. Since then, I have been working on EDSP engagements where I develop and operationalize end to end advanced analytics and AI solutions in Azure for customers across all industries. Prior to joining Microsoft, I was a Software Engineer and Data Scientist at IBM where I worked on several different Data & AI products such as SPSS and CPLEX. My educational background is in Math and Computer Science, and when I am not working, I enjoy running, golfing, and spending time with my 2 dogs.

What is Python?



Flexible programming language



Designed to be human readable

Why use Python?



Great starter language



Great advanced language



Wonderful community

What can I build with Python?



Machine learning models



Artificial intelligence projects



Web applications

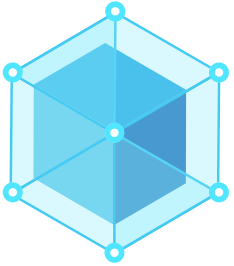


Automation utilities



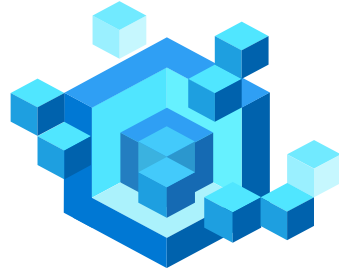
Anything, really

Why is Python Important?



Data Preparation

- Multiple Data Sources
- Multiple Formats
- Cleansing
- Transformation



Model Building

- Choice of algorithms
- Choice of development tools
- Local Testing



Model Training

- Code
- Distributed Training



Model Registration and Management

- Containerization
- Versioning
- Model Repository
- Track Experiments



Model Deployment

- Real time Inferencing
- Batch Inferencing
- Monitoring

Python Study Material

Git repo

- All the study material is stored in the following Git repo: [Module 1-Python - Repos \(azure.com\)](#)
- All the presentations and meeting recordings of the Python topic will be stored in the repo above

Evaluation

- At the end of the study material there is a Test Notebook you can use to test your knowledge in Python

Whom to contact if any problems?

Mentors

- Each one of you has been assigned to a mentor
- There is a Teams channel set up you can use to get in touch with your mentor
- You can also ask questions during the Office Hour

Office Hours

What are the Office Hours?

- For each topic of the EDSP curriculum, each leader will be organizing a weekly or bi-weekly office hours on Teams
- Office Hours is an occasion to all get together on a call to discuss or raise questions for a specific topic
- Paolo & Nicole will be organizing office hours on a weekly basis to reply any questions about the Python curriculum

Questions & Discussion