.

BayPiggies June 26, 2025 - Python+AI, Data Analysis, Education, PyCon recap

Hosted By
Karen D. and Chris B.
You shared feedback on June 27. Your feedback helps make the Meetup experience better for everyone.

Details

BayPIGgies... in-person at SAP Labs in Palo Alto!

IMPORTANT: SAP requires all registrations be completed in advance - and will email you prior to the event -- so no last minute registrations will be honored, and no walk-ins will be allowed.

Please RSVP here on Meetup and also fill out the Google form so you can receive the SAP form before the event (REQUIRED): https://forms.gle/3QjLD3YHcUS13vNq5

Announcements:

- Python conferences, PyBay and others
- Giving BayPiggies talks

Schedule:

- 6:30 Register and Refreshments
- 7:00 Welcome + Announcements
- 7:05 PyCon recap and PyBay information
- 7:20 Lightning Talk - Popular Python Packages Series - "mcp"
- 7:30 Learning Python, the fun way
- 7:50 Towards automating Python code performance optimization
- 8:20 Semiconductor Data Analysis with Python
- 8:50 Wrap-up

**** Short talk *****
"PyCon recap and PyBay information" presented by Chris Brousseau

**** Lightning talk *****
"Popular Python Packages Series - "mcp" present by Karen

**** Short talks *****
"Learning Python, the fun way" presented by John Exequiel San Jose

An excerpt on personal experiences giving Python instruction to kids: the challenges, tools and the possible future.

John is a Coding Instructor and Developer. With nearly decade in the academic realm he's dedicated a decent portion of his life to education, hoping that whatever he makes has a positive impact on our future.

"Towards automating Python code performance optimization" presented by Saurabh Misra

Optimizing code for performance requires expertise and deep manual efforts, and this barrier causes slow software. In this talk, we will see that modern AI-powered tools can now continuously optimize Python code in ways that resemble how expert programmers optimize. Through live code optimization demos with Codeflash, we'll demonstrate the capabilities of such an approach. Finally, we will see how we can start to automatically optimize all our existing and future Python code with such tools

Saurabh is the founder of Codeflash, an AI tool that optimizes Python code through benchmarking—while verifying its correctness. He comes from a background of building performance tools at NVIDIA and building ML products at Meta.

**** Main talk *****
"Semiconductor Data Analysis with Python" presented by Mike Purtell

The talk covers the use of dataframe & visualization libraries for semiconductor manufacturing data analysis. Will show how to do qualification shift analysis, pass/fail wafer maps, & wafer location-based heat maps for process characterization and yield improvement. Focus is on the "silicon" in Silicon Valley.

Mike is a Principal Test Engineer at Cadence Design Systems Design Systems. He is a Semiconductor Test Engineer with 30+ years' experience with data analysis tools that range from primitive console driven ascii based tools to the python ecosystem of 2025.

Thank you, SAP Labs, for sponsoring and hosting this month's meeting!

Personal Donations: Please consider supporting future BayPiggies events and Python in the Bay Area at the link below via the Bay Area Python Association and the Python Software