Using a domain-specific language to model data pipelines

We would like to interview you about your experience using Jayvee, a domain-specific language (DSL), to model data pipelines. We investigate if it is viable to use a DSL based on blocks and pipes for creating data pipelines and how doing so influences the speed, quality and experienced challenges in comparison to a general-purpose programming language like Python with libraries like Pandas.

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Interview procedure

- The interview is voluntary and has no effect on grades for AMSE / SAKI. We are interested in your honest opinion and want to hear your challenges with Jayvee.
- The interview takes around 30 minutes.
- The interview is semi-structured. We aim to ask open questions, so you can include any experience you consider relevant. We attached the interview questions below if you want to prepare thoughts.
- We will audio-record the interview so we do not miss important points. We will ask at the start of the interview if we have the permission to do so.
- We handle the data confidentially and won't use them except for the research on the use of
 domain-specific languages to model data pipelines. We might publish the interview transcripts in the
 context of academic publications. The data will be published under a pseudonym by default.

Interview questions we will ask

I. Warm-up

1. Please very briefly let us know your background in data engineering / programming outside of AMSE/SAKI

II. Ease of use and quality

- 2. How easy was it to use Jayvee to create data pipelines?
 - a. In general and compared to Python/Pandas
- 3. How would you describe the quality of data pipelines created in Jayvee?
 - a. In general and compared to Python/Pandas

III. Challenges

- 4. Which challenges did you encounter when creating data pipelines with Jayvee?
 - a. In general and compared to Python/Pandas
- 5. What worked well when creating data pipelines with Jayvee?
- 6. How did the blocks and pipes architecture of Jayvee change your approach compared to writing an imperative script in Python/Pandas?

IV Open topic

7. Is there any other topic regarding Jayvee or the comparison of DSLs like Jayvee to GPLs like Python/Pandas you consider important?