

Demographic Survey Questions

For simplicity, we present each question following the conventions below: multiple choice question with a single answer (☐) , multiple choice question with multiple answers (☐) , open question with a text field for answering (), questions with a numeric field with accepted answers between 0 and 100 (#). In addition, if clarifications or instructions were provided for a question, they will be presented after the question in italics between parentheses.

- i) *How many years of experience in software development do you have?* #
- ii) *How many papers have you published related to ML? (ML: Machine Learning)* #
- iii) *How many papers have you published related to SE without involving ML? (ML: Machine Learning, SE: Software Engineering)* #
- iv) *How many papers have you published related to ML4SE? (ML: Machine Learning, SE: Software Engineering, ML4SE: ML for SE)* #
- v) *How many papers have you published related to SE4ML? (ML: Machine Learning, SE: Software Engineering, SE4ML: SE for ML)* #
- vi) *What venues (journals/conferences) do you tend/prefer to publish in? (Please, separate each venue with a comma (,))*
- vii) *How would you describe your primary role?*
- ☐ Researcher (academics) ☐ Researcher (industrial)
- ☐ Applied Scientist ☐ Tester ☐ Project Manager ☐ DevOps Engineer
- ☐ Programmer ☐ Project Lead ☐ IT Manager ☐ Other
- viii) *What is your highest level of education?*
- ☐ Did not graduate from high school ☐ Some college ☐ High school
- ☐ Bachelors' degree ☐ Master's degree ☐ Doctoral degree ☐ Other
- ix) *Which programming languages have you frequently used in past project(s)? (If more than an additional language is added, please split them with ",")*
- ☐ C/C++ ☐ C# ☐ Java ☐ Javascript
- ☐ Julia ☐ Python ☐ R ☐ Rust
- ☐ Dart ☐ Kotlin ☐ Other

- x) *Which types of Learning approaches have you used?*
- ☐ Supervised ☐ Semi-supervised ☐ Reinforcement learning
☐ Unsupervised ☐ Other
- xi) *What types of ML tasks have you used?*
- ☐ Regression ☐ Clustering ☐ Machine translation
☐ Object detection ☐ Transcription ☐ Anomaly detection
☐ Other
- xii) *What types of systems have you developed involving ML?*
- ☐ Operating systems ☐ Server side ☐ Mobile applications
☐ Middleware ☐ Desktop applications ☐ Web applications
☐ Databases ☐ Recommender systems
☐ Development tools (compilers, prog.languages, etc.) Other
- xiii) *Have you primarily worked on open-source or closed-source projects?*
- ☐ Open-source only ☐ Closed-source only ☐ Open and closed-source
- xiv) *For which domains (e.g., banking or healthcare) have you developed applications/systems? (List them next separated by coma (,))*
- xv) *Do you have a background in machine learning? (Formal (college classes, degree, certification) or informal (self-learning or other training)?)*
- ☐ Yes, formal ☐ Yes, informal ☐ No
- xvi) *Do you have a background in software engineering research? (Formal (college classes, degree, certification) or informal (self-learning or other training)?)*
- ☐ Yes, formal ☐ Yes, informal ☐ No
- xvii) *When researching software engineering, do you keep track of your approaches/ models + dataset?, Which versioning systems have you used (e.g., CML, DVC, Git)?*
- ☐ Yes ☐ No
- xviii) *How often did you release or help release a new major version of ML models over the past two years? Please give your best estimate.*
- ☐ Never ☐ Annually ☐ Quarterly ☐ Monthly ☐ More frequently
- xix) *Which country/countries are you and/or your organization based in?*