Project: **Automated risk assessment of PyPi packages using unsupervised machine learning**

Student Engineer: Hari Markonda Patnaikuni

Student ID: n10789511

Supervisor: Dr. Gowri Sankar Ramachandran

Meeting Date, Time, & Method

Face to face Meeting on March 8th at 4PM

Report on Progress

Agenda & Discussion	*First meeting – initial scope of project discussed and background theory on project*
Key project activities completed and reported on this meeting.	*Agreement on meeting frequency and communication approach* *Investigations into literature, regulations, engineering practice* *Discussion on whole software supply chain project and PyPi packages security vulnerabilities and common attacks* *Previous PyPi research papers given by supervisor* *Motive given by supervisor – US Executive Order on Software Supply Chain*
Issues/concerns/questions remaining	N/A
Any risks identified (particularly HSE)	N/A
Ethical considerations	N/A
Sustainability considerations	N/A

Next actions agreed

Action	Who?	By when?
Choosing a research project	Me	Next Week
Reading Research Papers and Presenting a PowerPoint with Key Findings		

---- END OF MEETING NOTES ----

Project: Automated risk assessment of PyPi packages using unsupervised machine learning

Student Engineer: Hari Markonda Patnaikuni

Student ID: n10789511

Supervisor: Dr. Gowri Sankar Ramachandran

Meeting Date, Time, & Method

Face to face Meeting on March 15th at 4PM

Report on Progress

Agenda & Discussion	*Discussion of chosen project – PyPi risk analysis* *Discussion of previous literature related to project*
Key project activities completed and reported on this meeting.	• *Project is chosen* • *Research question needs to be developed* • Presenting a PowerPoint with Key Findings on literature review
Issues/concerns/questions remaining	N/A
Any risks identified (particularly HSE)	N/A
Ethical considerations	N/A
Sustainability considerations	N/A

Next actions agreed

[Outline what activities are planned for the next phase of your project – reporting on these will be the agenda focus for your next meeting. Note that you may be proposing actions requiring input from others so be sure to identify who will be completing the actions]

Action	Who?	By when?
Developing a research question and literature review	Me	Next Week

---- END OF MEETING NOTES ----

Next actions agreed

Project: Automated risk assessment of PyPi packages using unsupervised machine learning

Student Engineer: Hari Markonda Patnaikuni

Student ID: n10789511

Supervisor: Dr. Gowri Sankar Ramachandran

Meeting Date, Time, & Method

Face to face Meeting on March 22nd at 4PM

Report on Progress

Agenda & Discussion	*Discussion of Research Question*
Key project activities completed and reported on this meeting.	• *Discussion on Research Questions*
Issues/concerns/questions remaining	
Any risks identified (particularly HSE)	N/A
Ethical considerations	N/A
Sustainability considerations	N/A

Next actions agreed

[Outline what activities are planned for the next phase of your project – reporting on these will be the agenda focus for your next meeting. Note that you may be proposing actions requiring input from others so be sure to identify who will be completing the actions]

Action	Who?	By when?

Need to start work on Project Proposal	Me	Tommorow

---- END OF MEETING NOTES ----

Project: Automated risk assessment of PyPi packages using unsupervised machine learning

Student Engineer: Hari Markonda Patnaikuni

Student ID: n10789511

Supervisor: Dr. Gowri Sankar Ramachandran

Meeting Date, Time, & Method

Face to face Meeting on March 29th at 4PM

Report on Progress

Agenda & Discussion	*Discussion about Project Proposal and literature review*
Key project activities completed and reported on this meeting.	• *Completed discussion about project proposal and literature review* •
Issues/concerns/questions remaining	
Any risks identified (particularly HSE)	N/A
Ethical considerations	N/A
Sustainability considerations	N/A

Next actions agreed

[Outline what activities are planned for the next phase of your project – reporting on these will be the agenda focus for your next meeting. Note that you may be proposing actions requiring input from others so be sure to identify who will be completing the actions]

Action	Who?	By when?
Continue working on project proposal and literature review	Me	April 20th

Faculty of Engineering

EGH400 Engineering Project Progress Report

---- END OF MEETING NOTES ----

Project: **Automated risk assessment of PyPi packages using unsupervised machine learning**

Student Engineer: Hari Markonda Patnaikuni

Student ID: n10789511

Supervisor: Dr. Gowri Sankar Ramachandran

Meeting Date, Time, & Method

Zoom Meeting on April 5th at 4PM

Report on Progress

Agenda & Discussion	*Discussion about progress on project proposal and literature review*
Key project activities completed and reported on this meeting.	• *Completed discussion on progress made for project proposal and literature review*
Issues/concerns/questions remaining	
Any risks identified (particularly HSE)	N/A
Ethical considerations	N/A
Sustainability considerations	N/A

Next actions agreed

[Outline what activities are planned for the next phase of your project – reporting on these will be the agenda focus for your next meeting. Note that you may be proposing actions requiring input from others so be sure to identify who will be completing the actions]

Action	Who?	By when?
Continue working on project proposal	Me	April 20th

---- END OF MEETING NOTES ---

Project: **Automated risk assessment of PyPi packages using unsupervised machine learning**

Student Engineer: Hari Markonda Patnaikuni

Student ID: n10789511

Supervisor: Dr. Gowri Sankar Ramachandran

Meeting Date, Time, & Method

Email update on April 11th at 1:02PM

Report on Progress

Agenda & Discussion	*Update on progress made for project proposal and literature review* *Questions about project proposal formatting and page limit*
Key project activities completed and reported on this meeting.	• *Sent update about progress made and questions about project proposal*
Issues/concerns/questions remaining	
Any risks identified (particularly HSE)	N/A
Ethical considerations	N/A
Sustainability considerations	N/A

Next actions agreed

[Outline what activities are planned for the next phase of your project – reporting on these will be the agenda focus for your next meeting. Note that you may be proposing actions requiring input from others so be sure to identify who will be completing the actions]

Action	Who?	By when?

Send draft of project proposal by next week	Me	Next Week

---- END OF MEETING NOTES ---

Project: Automated risk assessment of PyPi packages using unsupervised machine learning

Student Engineer: Hari Markonda Patnaikuni

Student ID: n10789511

Supervisor: Dr. Gowri Sankar Ramachandran

Meeting Date, Time, & Method

Zoom Meeting on April 19th at 4PM

Report on Progress

Agenda & Discussion	*Discussion on draft project proposal*
Key project activities completed and reported on this meeting.	• *Discussion on project proposal completed*
Issues/concerns/questions remaining	
Any risks identified (particularly HSE)	N/A
Ethical considerations	N/A
Sustainability considerations	N/A

Next actions agreed

[Outline what activities are planned for the next phase of your project – reporting on these will be the agenda focus for your next meeting. Note that you may be proposing actions requiring input from others so be sure to identify who will be completing the actions]

Action	Who?	By when?
Send project proposal draft tomorrow	Me	Tomorrow

Faculty of Engineering

EGH400 Engineering Project Progress Report

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---- END OF MEETING NOTES ----

Project: Automated risk assessment of PyPi packages using unsupervised machine learning

Student Engineer: Hari Markonda Patnaikuni

Student ID: n10789511

Supervisor: Dr. Gowri Sankar Ramachandran

Meeting Date, Time, & Method

Face to face Meeting on April 26th at 4PM

Report on Progress

Agenda & Discussion	*Discussion on project and data used for data analysis via machine learning*
Key project activities completed and reported on this meeting.	• *Discussion on project and data to be used for project*
Issues/concerns/questions remaining	
Any risks identified (particularly HSE)	N/A
Ethical considerations	N/A
Sustainability considerations	N/A

Next actions agreed

[Outline what activities are planned for the next phase of your project – reporting on these will be the agenda focus for your next meeting. Note that you may be proposing actions requiring input from others so be sure to identify who will be completing the actions]

Action	Who?	By when?
Start writing code for risk assessment of PyPi packages metadata	Me	Tomorrow

Faculty of Engineering

EGH400 Engineering Project Progress Report

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---- END OF MEETING NOTES ----

Project: **Automated risk assessment of PyPi packages using unsupervised machine learning**

Student Engineer: Hari Markonda Patnaikuni

Student ID: n10789511

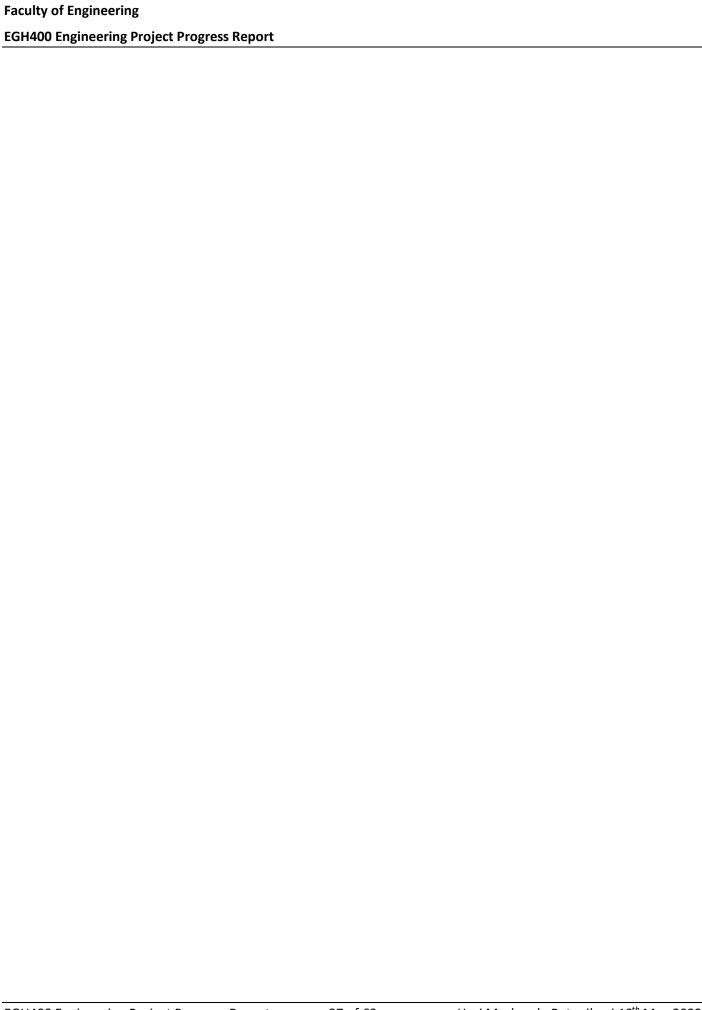**Supervisor: Dr. Gowri Sankar Ramachandran**

Meeting Date, Time, & Method

Face to face Meeting on May 3rd at 4PM

Report on Progress

Agenda & Discussion	*Discussion on dataset given and progress report*
Key project activities completed and reported on this meeting.	• *Completed discussion on progress report and dataset*
Issues/concerns/questions remaining	
Any risks identified (particularly HSE)	N/A
Ethical considerations	N/A
Sustainability considerations	N/A

Next actions agreed

[Outline what activities are planned for the next phase of your project – reporting on these will be the agenda focus for your next meeting. Note that you may be proposing actions requiring input from others so be sure to identify who will be completing the actions]

Action	Who?	By when?
Continue working on ML algorithm and pre-processing of dataset	Me	Tomorrow

Faculty of Engineering

EGH400 Engineering Project Progress Report

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---- END OF MEETING NOTES ----

Project: Automated risk assessment of PyPi packages using unsupervised machine learning

Student Engineer: Hari Markonda Patnaikuni

Student ID: n10789511

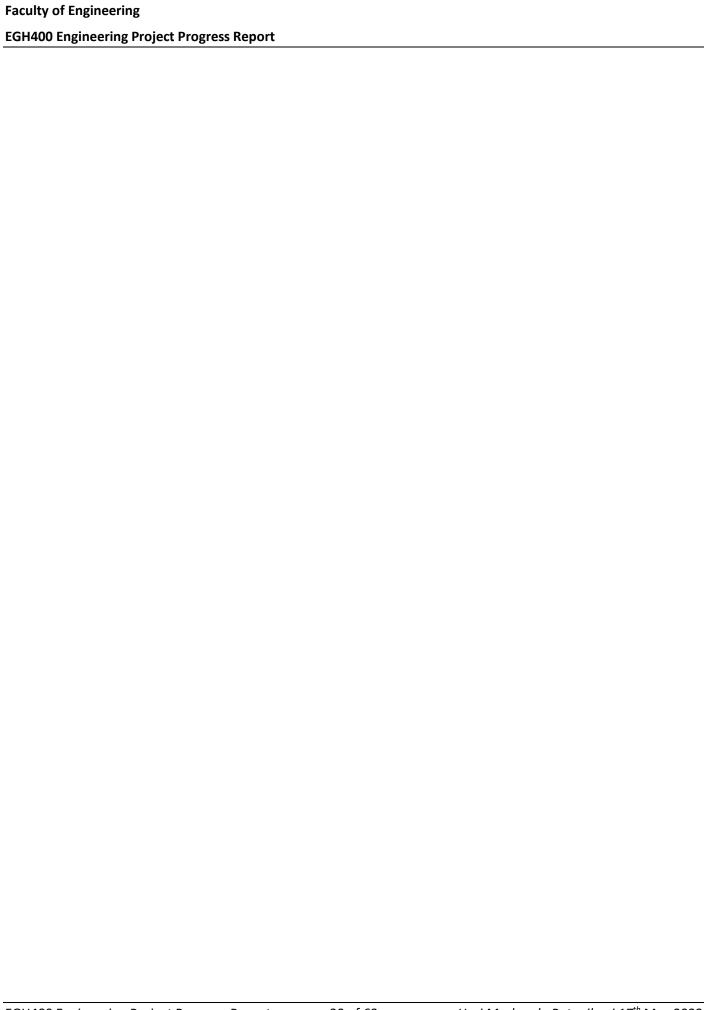**Supervisor: Dr. Gowri Sankar Ramachandran**

Meeting Date, Time, & Method

Zoom Meeting on May 10th at 4PM

Report on Progress

Agenda & Discussion	*Discussion on clustering, progress report, and dataset*
Key project activities completed and reported on this meeting.	• *Completed discussion on clustering, progress report, and dataset*
Issues/concerns/questions remaining	
Any risks identified (particularly HSE)	N/A
Ethical considerations	N/A
Sustainability considerations	N/A

Next actions agreed

[Outline what activities are planned for the next phase of your project – reporting on these will be the agenda focus for your next meeting. Note that you may be proposing actions requiring input from others so be sure to identify who will be completing the actions]

Action	Who?	By when?
Continue improving clustering results	Me	Tomorrow

---- END OF MEETING NOTES ----

Project: **Automated risk assessment of PyPi packages using unsupervised machine learning**

Student Engineer: Hari Markonda Patnaikuni

Student ID: n10789511

Supervisor: Dr. Gowri Sankar Ramachandran

Meeting Date, Time, & Method

Zoom Meeting on May 17th at 4PM

Report on Progress

Agenda & Discussion	*Discussion on clustering and progress report*
Key project activities completed and reported on this meeting.	• *Showed clustering results and discussed progress report*
Issues/concerns/questions remaining	
Any risks identified (particularly HSE)	N/A
Ethical considerations	N/A
Sustainability considerations	N/A

Next actions agreed

[Outline what activities are planned for the next phase of your project – reporting on these will be the agenda focus for your next meeting. Note that you may be proposing actions requiring input from others so be sure to identify who will be completing the actions]

Action	Who?	By when?
Continue improving clustering	Me	Tomorrow

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---- END OF MEETING NOTES ----

Project: **Automated risk assessment of PyPi packages using unsupervised machine learning**

Student Engineer: Hari Markonda Patnaikuni

Student ID: n10789511

Supervisor: Dr. Gowri Sankar Ramachandran

Meeting Date, Time, & Method

Email Update on May 24th at 2:43PM

Report on Progress

Agenda & Discussion	*Update on clustering and progress report*
Key project activities completed and reported on this meeting.	• *Showed clustering results and discussed progress made on progress report*
Issues/concerns/questions remaining	
Any risks identified (particularly HSE)	N/A
Ethical considerations	N/A
Sustainability considerations	N/A

Next actions agreed

[Outline what activities are planned for the next phase of your project – reporting on these will be the agenda focus for your next meeting. Note that you may be proposing actions requiring input from others so be sure to identify who will be completing the actions]

Action	Who?	By when?
Continue improving clustering and email draft progress report	Me	Next Week

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---- END OF MEETING NOTES ----

Project: Automated risk assessment of PyPi packages using unsupervised machine learning

Student Engineer: Hari Markonda Patnaikuni

Student ID: n10789511

Supervisor: Dr. Gowri Sankar Ramachandran

Meeting Date, Time, & Method

Email Update on May 31st at 3:24PM

Report on Progress

Agenda & Discussion	*Emailed draft of progress report*
Key project activities completed and reported on this meeting.	• *Emailed draft of progress report*
Issues/concerns/questions remaining	
Any risks identified (particularly HSE)	N/A
Ethical considerations	N/A
Sustainability considerations	N/A

Next actions agreed

[Outline what activities are planned for the next phase of your project – reporting on these will be the agenda focus for your next meeting. Note that you may be proposing actions requiring input from others so be sure to identify who will be completing the actions]

Action	Who?	By when?

Faculty of Engineering

EGH400 Engineering Project Progress Report

N/A	N/A	N/A	

---- END OF MEETING NOTES ----

Faculty of Engineering

EGH400 Engineering Project Progress Report

Project: Automated risk assessment of PyPi packages using unsupervised machine learning

Student Engineer: Hari Markonda Patnaikuni

Student ID: n10789511

Supervisor: Dr. Gowri Sankar Ramachandran

Meeting Date, Time, & Method

Email Update on 27th July at 10:27AM

Report on Progress

Agenda & Discussion	*Email update from supervisor to focus on feature selection approaches*
Key project activities completed and reported on this meeting.	• *Should focus on feature selection approaches and prepare slides on which ones are important* • *Prepare a timeline for semester 2*
Issues/concerns/questions remaining	
Any risks identified (particularly HSE)	N/A
Ethical considerations	N/A
Sustainability considerations	N/A

Next actions agreed

[Outline what activities are planned for the next phase of your project – reporting on these will be the agenda focus for your next meeting. Note that you may be proposing actions requiring input from others so be sure to identify who will be completing the actions]

EGH400 Engineering Project Progress Report

Action	Who?	By when?
Should focus on feature selection approaches and prepare slides on which ones are important	Me	Next Week
Prepare a timeline for semester 2	Me	Next Week

---- END OF MEETING NOTES ----

Project: **Automated risk assessment of PyPi packages using unsupervised machine learning**

Student Engineer: Hari Markonda Patnaikuni

Student ID: n10789511

Supervisor: Dr. Gowri Sankar Ramachandran

Meeting Date, Time, & Method

Face to Face Meeting on 3rd August

Report on Progress

Agenda & Discussion	*Discussion about feature selection approaches and semester 2 outline*
Key project activities completed and reported on this meeting.	• *Should give draft of final report around Week 10*
Issues/concerns/questions remaining	
Any risks identified (particularly HSE)	N/A
Ethical considerations	N/A
Sustainability considerations	N/A

Next actions agreed

[Outline what activities are planned for the next phase of your project – reporting on these will be the agenda focus for your next meeting. Note that you may be proposing actions requiring input from others so be sure to identify who will be completing the actions]

Faculty of Engineering

EGH400 Engineering Project Progress Report

Action	Who?	By when?
Continue to work on clustering results	Me	Next Week

---- END OF MEETING NOTES ----

Project: **Automated risk assessment of PyPi packages using unsupervised machine learning**

Student Engineer: Hari Markonda Patnaikuni

Student ID: n10789511

Supervisor: Dr. Gowri Sankar Ramachandran

Meeting Date, Time, & Method

Zoom Meeting on 10ᵗʰ August at 4PM

Report on Progress

Agenda & Discussion	*Discussion about new dataset with important features within dataset*
Key project activities completed and reported on this meeting.	• *Should recompile clustering algorithms with new dataset and show results next week*
Issues/concerns/questions remaining	
Any risks identified (particularly HSE)	N/A
Ethical considerations	N/A
Sustainability considerations	N/A

Next actions agreed

Faculty of Engineering

EGH400 Engineering Project Progress Report

Action	Who?	By when?
• *Should recompile clustering algorithms with new dataset and show results next week*	Me	Next Week

---- END OF MEETING NOTES ----

Project: Automated risk assessment of PyPi packages using unsupervised machine learning

Student Engineer: Hari Markonda Patnaikuni

Student ID: n10789511

Supervisor: Dr. Gowri Sankar Ramachandran

Meeting Date, Time, & Method

Face to Face Meeting on 17th August at 4PM

Report on Progress

Agenda & Discussion	*Discussion about new clustering results using new dataset*
Key project activities completed and reported on this meeting.	• *Change the way pre-processing is done and recompile models*
Issues/concerns/questions remaining	
Any risks identified (particularly HSE)	N/A
Ethical considerations	N/A
Sustainability considerations	N/A

Next actions agreed

Faculty of Engineering

EGH400 Engineering Project Progress Report

Action	Who?	By when?
• ***Should recompile clustering algorithms with new dataset and show results next week***	Me	Next Week

---- END OF MEETING NOTES ----

Project: **Automated risk assessment of PyPi packages using unsupervised machine learning**

Student Engineer: Hari Markonda Patnaikuni

Student ID: n10789511

Supervisor: Dr. Gowri Sankar Ramachandran

Meeting Date, Time, & Method

Zoom Meeting on 24ᵗʰ August at 4PM

Report on Progress

Agenda & Discussion	*Discussion about new clustering results using new dataset*
Key project activities completed and reported on this meeting.	• *Need to keep on working on clustering results*
Issues/concerns/questions remaining	
Any risks identified (particularly HSE)	N/A
Ethical considerations	N/A
Sustainability considerations	N/A

Next actions agreed

Faculty of Engineering

EGH400 Engineering Project Progress Report

Action	Who?	By when?
• ***Should recompile clustering algorithms with new dataset and show results next week***	Me	Next Week

---- END OF MEETING NOTES ----

Project: Automated risk assessment of PyPi packages using unsupervised machine learning

Student Engineer: Hari Markonda Patnaikuni

Student ID: n10789511

Supervisor: Dr. Gowri Sankar Ramachandran

Meeting Date, Time, & Method

Email update on 30th August at 8:56PM

Report on Progress

Agenda & Discussion	*Email update about clustering results still not good enough for generating risk assessment*
Key project activities completed and reported on this meeting.	• *Need to keep on working on clustering results*
Issues/concerns/questions remaining	
Any risks identified (particularly HSE)	N/A
Ethical considerations	N/A
Sustainability considerations	N/A

Next actions agreed

Action	Who?	By when?
• *Should recompile clustering algorithms with new dataset and show results next week*	Me	Next Week

---- END OF MEETING NOTES ----

Next actions agreed

Project: Automated risk assessment of PyPi packages using unsupervised machine learning

Student Engineer: Hari Markonda Patnaikuni

Student ID: n10789511

Supervisor: Dr. Gowri Sankar Ramachandran

Meeting Date, Time, & Method

Zoom meeting on 7th September at 3PM

Report on Progress

Agenda & Discussion	*Discussion about new clustering results using scores as features for metadata*
Key project activities completed and reported on this meeting.	• *Need to keep on working on clustering results*
Issues/concerns/questions remaining	
Any risks identified (particularly HSE)	N/A
Ethical considerations	N/A
Sustainability considerations	N/A

Next actions agreed

EGH400 Engineering Project Progress Report

Action	Who?	By when?
• *Should recompile clustering algorithms without the finalriskscore and show results and report template next week*	Me	Next Week

---- END OF MEETING NOTES ----

Project: Automated risk assessment of PyPi packages using unsupervised machine learning

Student Engineer: Hari Markonda Patnaikuni

Student ID: n10789511

Supervisor: Dr. Gowri Sankar Ramachandran

Meeting Date, Time, & Method

Face to Face meeting on 14th September at 4PM

Report on Progress

Agenda & Discussion	*Discussion about new clustering results and report template for final submission*
Key project activities completed and reported on this meeting.	• *Need to generate risk and reliability scores* • *Clustering is now good enough to generate risk and reliability scores*
Issues/concerns/questions remaining	
Any risks identified (particularly HSE)	N/A
Ethical considerations	N/A
Sustainability considerations	N/A

Next actions agreed

Action	Who?	By when?
• *Should start writing final report and generate risk and reliability scores*	Me	Next Week

---- END OF MEETING NOTES ----

Next actions agreed

Project: Automated risk assessment of PyPi packages using unsupervised machine learning

Student Engineer: Hari Markonda Patnaikuni

Student ID: n10789511

Supervisor: Dr. Gowri Sankar Ramachandran

Meeting Date, Time, & Method

Zoom meeting on 21ˢᵗ September at 4:30PM

Report on Progress

Agenda & Discussion	*Discussion about clustering results and report*
Key project activities completed and reported on this meeting.	• *Still need to generate risk and reliability scores and continue to write report*
Issues/concerns/questions remaining	
Any risks identified (particularly HSE)	N/A
Ethical considerations	N/A
Sustainability considerations	N/A

Next actions agreed

Faculty of Engineering

EGH400 Engineering Project Progress Report

Action	Who?	By when?
• *Should continue writing final report and generate risk and reliability scores*	Me	Next Week

---- END OF MEETING NOTES ----

Project: **Automated risk assessment of PyPi packages using unsupervised machine learning**

Student Engineer: Hari Markonda Patnaikuni

Student ID: n10789511

Supervisor: Dr. Gowri Sankar Ramachandran

Meeting Date, Time, & Method

Zoom meeting on 5th October at 3:15PM

Report on Progress

Agenda & Discussion	*Discussion about clustering results and report*
Key project activities completed and reported on this meeting.	• *Still need to generate risk and reliability scores and continue to write report*
Issues/concerns/questions remaining	
Any risks identified (particularly HSE)	N/A
Ethical considerations	N/A
Sustainability considerations	N/A

Next actions agreed

Faculty of Engineering

EGH400 Engineering Project Progress Report

Action	Who?	By when?
• ***Should continue writing final report and generate risk and reliability scores***	Me	Next Week

---- END OF MEETING NOTES ----

Project: Automated risk assessment of PyPi packages using unsupervised machine learning

Student Engineer: Hari Markonda Patnaikuni

Student ID: n10789511

Supervisor: Dr. Gowri Sankar Ramachandran

Meeting Date, Time, & Method

Face to Face meeting on 12th October at 4PM

Report on Progress

Agenda & Discussion	*Discussion about clustering results and draft report*
Key project activities completed and reported on this meeting.	*Generated risk and reliability scores* *Continue to improve report* *Make the report more clear about which clusters each package belongs to and how this affects the risk assessment*
Issues/concerns/questions remaining	
Any risks identified (particularly HSE)	N/A
Ethical considerations	N/A
Sustainability considerations	N/A

Next actions agreed

Action	Who?	By when?
Continue to improve report	Me	Next Week
Make the report more clear about which clusters each package belongs to and how this affects the risk assessment	Me	Next Week

---- END OF MEETING NOTES ----

Next actions agreed

Project: **Automated risk assessment of PyPi packages using unsupervised machine learning**

Student Engineer: Hari Markonda Patnaikuni

Student ID: n10789511

Supervisor: Dr. Gowri Sankar Ramachandran

Meeting Date, Time, & Method

Email update on 18th October at 10:56PM

Report on Progress

Agenda & Discussion	*Emailed final draft for report*
Key project activities completed and reported on this meeting.	• *Final Draft emailed to supervisor*
Issues/concerns/questions remaining	
Any risks identified (particularly HSE)	N/A
Ethical considerations	N/A
Sustainability considerations	N/A

Next actions agreed

EGH400 Engineering Project Progress Report

Action	Who?	By when?
Improve report and work on final presentation to show in Week 13 to supervisor	Me	Next Week

---- END OF MEETING NOTES ----

Project: Automated risk assessment of PyPi packages using unsupervised machine learning

Student Engineer: Hari Markonda Patnaikuni

Student ID: n10789511

Supervisor: Dr. Gowri Sankar Ramachandran

Meeting Date, Time, & Method

Zoom meeting on 26th October at 4PM

Report on Progress

Agenda & Discussion	*Discussion about final project report and presentation*
Key project activities completed and reported on this meeting.	• *Discussion completed about final report and presentation.*
Issues/concerns/questions remaining	
Any risks identified (particularly HSE)	N/A
Ethical considerations	N/A
Sustainability considerations	N/A

Next actions agreed

EGH400 Engineering Project Progress Report

Action	Who?	By when?
Improve final presentation	Me	Next Week
Expand upon summary in Results section of report	Me	Today

---- END OF MEETING NOTES ----