**EXPLORATORY DATA ANALYSIS**

**SECTION**

**SECTION**

**SECTION**

**SECTION**

**FORGE COLLABORATION ANALYSIS**

***INTER*PROJECT STABILITY ANALYSIS**

***INTRA*PROJECT STABILITY ANALYSIS**

**COMMITTER BEHAVIOUR ANALYSIS**

**STRUCTURAL METRICS**

* **Analysis identifying ‘stable project pairs’**
* **Formulate a measure of intraproject team stability**
* **Calculate team stability for each project**
* **Analyse impact of intraproject team stability on structural metrics**
* **Formulate a categorical measure of interproject team stability.**
* **Analyse impact of interproject team stability on structural metrics**

***INTRA*PROJECT TEAM STABILITY**

**MITIGATING THE IMPACT OF FORKING**

* **Detail the twin threats to validity from forking and changing committer IDs on stability analysis**
* **Document solutions to mitigate these threats**

**TRACKING COMMITTERS THROUGHOUT THE FORGE**

**5.2**

**5.3**

**5.5**

**5.6**

**PROJECT-FOCUSED COLLABORATION ANALYSIS**

**COMMITTER-FOCUSED COLLABORATION ANALYSIS**

**STRUCTURAL METRICS**

***INTER*PROJECT TEAM STABILITY**

**SECTION**

**PROJECT-LEVEL ANALYSIS**

* **Visualise project sample. Selection of projects for further study.**
* **Quantitative analysis of metric values and model parameters.**
* **Qualitative analysis of internal structural attributes of code**

**5.7**

**SAMPLING**

**SECTION**

***INTER*PROJECT SAMPLING**

**5.4**

***INTRA*PROJECT SAMPLING**

**PROJECT SELECTION**

**MODEL VALIDATION**

**PROJECT QUALITATIVE AND QUANTITATVE ANALYSIS**

* **Analyse forge for committer trends**