Research Plan TEMPLATE

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| **Student name:** |  |
| **Student email:** |  |
| **Degree program:** |  |
| **Advisor name:** |  |
| **Advisor email:** |  |
| **Date:** |  |

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| *By specifying the Problem statement and Data sources, instructors, advisors and others may thereby suggest projects via template for completion by the student.* |

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| **Credits [1-3]:** | 1 |

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| Problem statement | *The problem statement provides a clear and concise description of the issue that the project will address.* |

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| Detect Parkinson's Disease from the Oxford Parkinson's Disease Detection Dataset voice data using machine learning, employing the Scikit-learn package. |

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| Data sources | *Source and dataset specification sufficient to facilitate verification of accessibility by the student for the project.* |

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| * Datasource: [UC Irvine ML Archive](https://archive.ics.uci.edu/) * Dataset: [Oxford Parkinson's Disease Detection Dataset](https://archive.ics.uci.edu/ml/datasets/Parkinsons) |

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| *Students must complete the elements of this template to comprise a preliminary research plan for instructor approval.* |

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| Title | *The title should be descriptive and comprehensible to the intended audience.* |

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| Topics; keywords | *Keywords for the relevant area[s] of biomedical data science.* |

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| Investigator roles and training | *Describe what role each person will play on the project team and what each person’s responsibility(ies) and deliverables will be. How has the investigator's coursework and other training prepared them for these roles?* |

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| Abstract | *Abstracts provide a comprehensive summary of the research project. For preliminary abstracts, it is understood that revisions may be required depending on results.* |

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| Introduction; overview | *Provide a brief description of the background needed to understand your project, and how it relates to biomedicine and data science.* |

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| Importance | *Why is your project problem important to biomedical science, medicine, public health or others? Cite relevant references if possible.* |

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| Objectives | *Provide a list of the specific answers, results, datasets, tools, and/or other deliverables that will be generated by completing the project.* |

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| Methodology | *Methodology defines the methods and logic steps that will be taken to solve the project problem and to achieve proposed objectives. Software should be specified, particularly any specialized scientific software tools.* |

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