Configuration Manual

MSc Research Project
MSc in Data Analytics

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MSc Project Submission Sheet

School of Computing

Student Name:	Pooja Narendra Angale
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Programme:	MSc in Data Analytics **Year:** 2023-24
Module:	MSc Research Project
Lecturer:	John Kelly
Submission Due Date:	12/08/2024
Project Title:	Optimizing Customer Churn Prediction in Telecom using Machine Learning: A Comparative Study of Sampling Techniques
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1 Introduction

This configuration document contains all the information used in the research. This considers the study of intent classification. Testing was done on a standard laptop. This guide provides step-by-step instructions for replicating the thesis work in its entirety. All it explains the artifacts attached along with the report. These manual covers code snippets from data collection, model building, experiments, and result evaluation.

2 Specification Details

2.1 Hardware Specification
The research was performed on a personal laptop, MacBook Air M1. The device specifications are given below in figure.

Figure 1. Device Specification

2.2 Software Specification

The project is implemented using the Jupyter Notebook version 6.5.4 with the Python kernel version 3.11. Jupyter Notebook can be installed and launched using the Anaconda Navigator (fig. 2) which by default installs the python kernel as well.
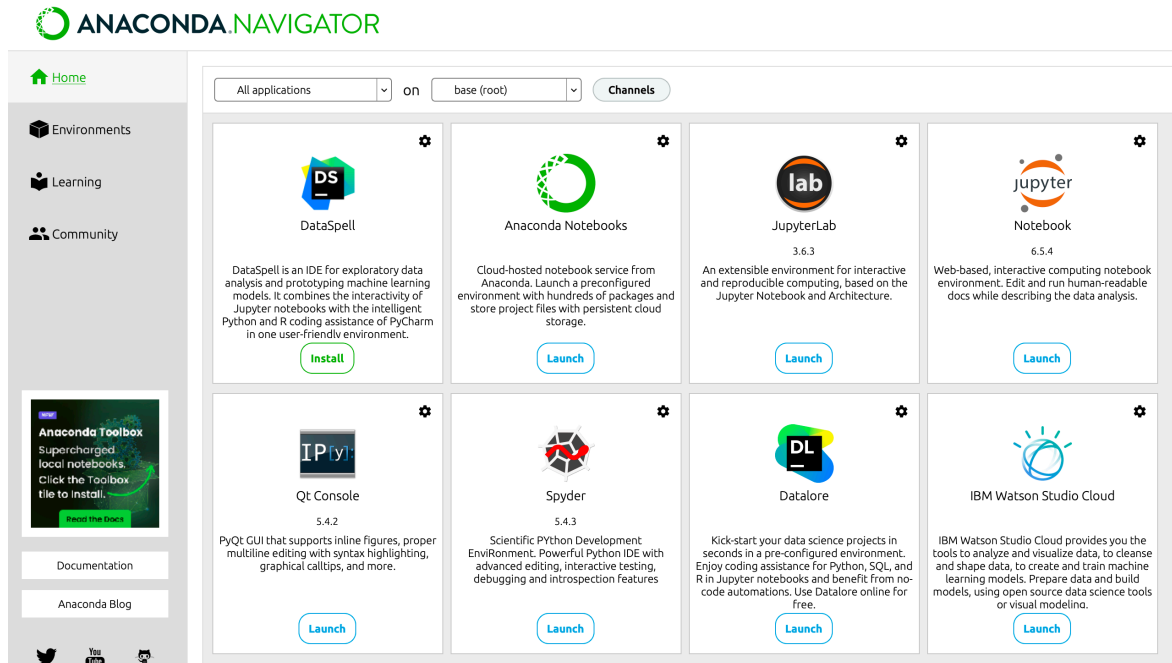

Figure 2. Anaconda Navigator for Jupyter Notebook