



Project Initialization and Planning Phase

Date	10 July 2024	
Team ID	xxxxxxxxx	
Project Title	Detection of Autistic Spectrum Disorder: Classification	
Maximum Marks	3 Marks	

Project Proposal (Proposed Solution) template

This project proposal outlines a solution to address a specific problem. With a clear objective, defined scope Objective, and a concise problem statement, the proposed solution details the approach, key features, and resource requirements, including hardware, software, and personnel.

Project Overview		
objective	The primary objective of this project is to develop and deploy a robust classification model that accurately predicts whether an individual has Autistic Spectrum Disorder (ASD) based on relevant features and data. Specifically, the project aims	
Scope	The scope of the project involves developing and deploying a classification model to detect Autistic Spectrum Disorder (ASD) based on comprehensive data analysis. This includes collecting and preparing relevant datasets, performing exploratory data analysis (EDA), selecting and training suitable machine learning models, and evaluating their performance.	
Problem Statement		
Description	The project aims to develop a sophisticated classification system capable of accurately identifying individuals with Autistic Spectrum Disorder (ASD) using machine learning techniques. The process begins with the collection of diverse datasets containing crucial features such as behavioral traits, medical history, and responses to standardized diagnostic tools like the Autism Diagnostic Observation Schedule (ADOS)	
Impact	Enable early diagnosis and intervention, improving outcomes for individuals with ASD. Optimize resource allocation in healthcare and advance research	





Proposed Solution	
Approach	Collecting and cleaning data on ASD-related features
Key Features	The proposed solution for detecting Autistic Spectrum Disorder (ASD) leverages a comprehensive approach integrating diverse data facets crucial for accurate classification

Resource Requirements

Resource Type	Description	Specification/Allocation		
Hardware				
Computing Resources	CPU/GPU specifications, number of cores	e.g., 2 x NVIDIA V100 GPUs		
Memory	RAM specifications	e.g., 8 GB		
Storage	Disk space for data, models, and logs	e.g., 1 TB SSD		
Software				
Frameworks	Python frameworks	e.g., Flask		
Libraries	Additional libraries	e.g., scikit-learn, pandas, numpy		
Development Environment	IDE, version control	e.g., Jupyter Notebook, Git		
Data				
Data	Source, size, format	e.g., Kaggle dataset, 10,000 images		