

Architecture Document Design

Title: Campus Placement Prediction

1. Introduction

1.1. What is Architecture Document Design?

An Architecture Document is a comprehensive artifact that describes the architectural design of a software system. It serves as a blueprint for the development team, providing a clear understanding of the system's structure, components, interactions, and design decisions.

1.2. Scope

Provide a high-level overview of the software system, including its purpose, objectives, and key features. Describe the context in which the system operates, its stakeholders, and the problem it aims to solve.

2 Technical specifications

2.1 Dataset

<https://www.kaggle.com/c/ml-with-python-course-project/data>

sl_no	gender	ssc_p	ssc_b	hsc_p	hsc_b	hsc_s	degree_p	degree_t	workex	etest_p	specialisation	mba_p	status	salary
1	M	67.00	Others	91.00	Others	Commerce	58.00	Sci&Tech	No	55.0	Mkt&HR	58.80	Placed	270000.0
2	M	79.33	Central	78.33	Others	Science	77.48	Sci&Tech	Yes	86.5	Mkt&Fin	66.28	Placed	200000.0
3	M	65.00	Central	68.00	Central	Arts	64.00	Comm&Mgmt	No	75.0	Mkt&Fin	57.80	Placed	250000.0
4	M	56.00	Central	52.00	Central	Science	52.00	Sci&Tech	No	66.0	Mkt&HR	59.43	Not Placed	NaN
5	M	85.80	Central	73.60	Central	Commerce	73.30	Comm&Mgmt	No	96.8	Mkt&Fin	55.50	Placed	425000.0

2.2 Predicting Status

- The system displays the choices of the features.
- The User chooses the target by clicking one of the available

choices.

- The User selects the feature values.
- The system presents the set of inputs required from the user.
- The user gives required information.
- The system should be able to predict whether placed or not for the chosen value based on the user information.

2.3 Logging

We should be able to log every activity done by the user.

- The System identifies at what step logging required
- The System should be able to log each and every system flow.
- Developers can choose logging methods. You can choose database logging/
File logging as well.
- System should not be hung even after using so many loggings. Logging just
because we can easily debug issues so logging is mandatory to do.

2.4 Deployment

1. AWS



3 Model training/validation workflow

