

Salary Estimator For Brototype Students

Problem Statement: The students at Brototype software institute lack information about the expected salary they can negotiate for when they get placed in jobs. Due to the lack of knowledge about the real value of their skills and the job market, they are finding it difficult to ask for the relevant salary from companies. This leads to students either underestimating their worth or asking for less than they could potentially earn.

Project Objective: To develop a predictive tool that can help Brototype students estimate their expected salary range based on their skills, experience, and demographics. The project will involve collecting data from previously graduated students, including their domains, skills, age, experience, and placed salary. This data will be analyzed to identify patterns and trends and develop a predictive model that can estimate the expected salary range for new graduates based on their skills and demographics.

The tool will provide insights into the key skills and domains that are in high demand in the job market, helping graduates to focus on developing the skills that will make them more competitive. By empowering Brototype graduates to negotiate better salaries with recruiters based on the real value of their skills and experience, this tool will benefit both graduates and recruiters in the industry.

Overall, the project aims to help Brototype graduates make informed decisions about their careers and increase their earning potential by developing a data-driven tool that provides valuable insights into the job market.

Deliverables from this project:

1. Data Collection API for graduates to submit their domain, skills, age, experience, and placed salary information securely to the database.
2. Web-based Dashboard and KPIs to display relevant industry trends and key performance indicators such as the most in-demand skills and average salaries by domain.
3. Machine Learning Model for estimating the expected salary range of Brototype graduates based on their skills, experience, and demographic information.
4. Web Application that allows Brototype graduates to input their information and receive an estimated salary range, integrating with the data collection API and machine learning model.

Project Structure

- 1. Project Planning**
- 2. Data Collection**
- 3. EDA and Data Preprocessing**
- 4. Dashboard Creation**
- 5. Modelling**
- 6. Deployment**
- 7. Documentation**

Project Planning

- 1. Problem - Tool for salary estimation**
- 2. Data Collection - Create google form and collect data through Google Form API**
- 3. Data pre-processing - numpy, pandas, matplotlib for data cleaning and viz**
- 4. Dashboard - Use Tableau/Power BI for dashboard creation**
- 5. Model building - Train a regression model for prediction salary**
- 6. Deployment - With Django/flask deploy the model with UI so user can use the tool**

Google Form

Name *

Your answer

Age *

Your answer

Degree *

Yes

No

District *

Your native place

Your answer

Domain Chosen in Brotopye *

Choose

Currently Working as *

Please type in your current Designation.

Your answer

Current Working Place *

Where you are working now? (type in WFH for work from home)

Your answer

Technical Skills *

Please type in your technical skills. e.g:- JavaScript, Python, React, Aws, Docker, ...

Your answer

Date *

Date you got placed..

Date

Placed Salary *

Your answer

Sample Data

Dashboard Overview

Create the Dashboard in Tableau/ PowerBi

Potential KPIs and visualizations for dashboard:

1. Average salary by domain - a **bar chart** that shows the average salary for each domain that students are studying.
2. Age distribution - a **histogram** that shows the distribution of ages among the students.
3. Degree distribution - a **pie chart or stacked bar chart** that shows the proportion of students with and without a degree.
4. District distribution - a **map** that shows the number of students in each district.
5. Preferred working place - a **stacked bar chart** that shows the proportion of students who prefer to work in different cities or regions.
6. Technical skills - a **heat map** or tree map that shows the frequency and popularity of different technical skills.
7. Work experience distribution - a **histogram** that shows the distribution of work experience among the students.
8. Top paying domains - a **bar chart** that shows the domains that offer the highest average salaries.
9. Top paying technical skills - a **bar chart** that shows the technical skills that are most highly valued by employers.