

# PayForecast: Project Overview

## Introduction

PayForecast is an advanced machine learning web application developed as the final year major project for the B.Tech degree program at KIIT Bhubaneswar. This innovative tool is designed to predict future salaries based on various parameters, including years of experience, level of education, and geographic location. Leveraging the latest data from the 2023 Stack Overflow survey, PayForecast offers users valuable insights into potential compensation trends.

## Team Members

- Project Mentor: Professor Ajit Kumar Pasayat
- Project Contributors:
  - Soumyo Chakravorty
  - Pratik Jha
  - Mohit Kumar Nanda
  - Harshit Sharma
  - Vishesh Ranjan

## Features

- Accurate salary prediction based on essential career metrics.
- Interactive interface for easy user interaction and data input.
- Data analysis and visualization for comprehensive insights.
- Seamless integration of machine learning algorithms for precise forecasts.
- Intuitive dashboard for quick and effective data interpretation.

## Installation Guide

To set up the application on your local machine, follow these steps:

1. Open your preferred IDE terminal (e.g., Visual Studio Code).
2. Install the necessary packages using the following commands:
  - `pip install streamlit`
  - `pip install scikit-learn`
  - `pip install matplotlib`
  - `pip install numpy`
  - `pip install pandas`
  - `pip install wheel`
  - `pip install pyspark`

## How to Run

To launch the application, use the following command: `streamlit run app.py`

Explore the power of predictive analytics with PayForecast. Unlock a new realm of salary projections and stay ahead of the curve in the competitive job market!

### **Deployment Link**

<https://payforecast-salary-predictor-major-project-kiit.streamlit.app/>