**Capstone: Searchable Enterprise Directory**

# Overview

Create a React web application to allow employees to search an enterprise-wide employee directory. The directory should include:

* Name
* Phone number
* Job role
* Work location
* Salary

Salary is confidential information so:

* Any employee can view their own salary.
* An employee's manager can view the salary of any of their direct reports.
* An employee in the *HR* role can view anyone's salary.

# Building the Application

1. Choose Mongo DB backend data.
2. Use node.js to build a web service to read and write data.
3. Build the web application in React.

# Data Analysis

Create a solution that predicts salary based on job role and location.

1. Create a script that generates and populates the database with a minimum of 1000 records of dummy data.
2. Train a **sklearn.linear\_model.LinearRegression** model to predict salary based on job role and location.
3. Create a React component that can take job role and location as input and pass that to the model using a RESTful service. Display the returned predicted salary.
   1. **TIP**: Investigate using the python-shell npm package in Express to call Python from JavaScript. Another option is to use Flask to create the RESTful service.