**Saurav Bhilare**

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**EDUCATIONAL QUALIFICATION:**

**Bachelor of Engineering, Civil Engineering** (Expected Graduation June 2020)

University of Pune

**GPA: 8.8/10** ( Avg. 3 Years )

**TECHNICAL SKILLS:**

• Proficient in AutoCAD, Revit, SketchUp, Microsoft Project., MS office.

• Good Working Knowledge of StaadPro, Dynamo Studio, Autodesk Flow Design.

• Programming Language: Python

• RPA tools: UiPath, Azure Custom Vision, Azure Computer Vision, Dialogflow

**EXPERIENCE:**

**Incubator Program (Jan 2018 – Jan 2019)**

By OrganicBots, North Carolina*,* USA

• Learned and implemented Robotic Process Automation (RPA) tools.

• Worked in an Interdisciplinary team.

• Developed a product for Automation of "Bank data verification" process using OCR and

 Machine Learning.

**PROJECTS:**

**Virtual Assistant for Construction Project Management using AI and ML**

(Final year project, B.E. Civil Engineering) (Ongoing Project, May 2019 – May 2020)

* Implemented Artificial Intelligence (AI) and Machine Learning (ML) in construction Management.
* Developed Virtual Assistant using Dialogflow and Cloud database services by Google.
* The assistant responds to voice commands and perform tasks such as material management, data management, tracking real time progress, multi-disciplinary coordination etc.

**Feasibility Study of Gut Rehab of Rental Buildings in Jersey City, USA**

(For Construction Management Specialization course by University of Columbia: Coursera)

* Estimated the sales price of rental buildings after a major restoration by using Spreadsheet.
* Calculated Total cost per sq. ft., Taxes, Return of Investment, Sales price etc.

**Adoption and effectiveness of BIM in Construction Projects.** (Seminar)

* The purpose of the study was to better comprehend the benefits of Building Information Modeling (BIM) and analyze problems related to BIM adoption in Indian construction sector.
* Seminar described role of BIM, its benefits, barriers related to its adoption in India and solutions.

**Detailed 3D model of a multi-storey building**

(Final project for course “3D CAD Applications” by National Taiwan University [NTU]: Coursera)

* Prepared a 3D model of a Residential building using SketchUp software, showing all the component in detail including staircase, window components, materials etc.

**Letter to Government Pollution Control Board regarding a Sustainable development issue**

* (Final Project for course “Sustainable Development in 21st century” by University of Pennsylvania)
* The letter was written to Maharashtra Pollution Control Board (MPCB).
* The letter discussed: Issue of waste water disposal in Wagholi area and suggested various solutions.

**Automation of Bank data verification process using Microsoft Azure Cloud services and ML** (Incubator Program, Dec 18 – Feb 19)

* Using Microsoft Computer Vision and to verify if given a given document is a bank cheque or not.
* Creating a program to scan the image of a bank cheque and extract data using OCR and Azure Cloud services for further processes.

**CERTIFICATIONS:**

**Columbia University:** Coursera

* **Specialization : Construction Management**
* Construction Scheduling
* Construction Finance
* Fundamentals of strategy
* Fundamentals of Economics
* Strength of Materials
* Housing Policy and Planning

* Improving communication Skills
* Problem Solving with Excel
* Construction Project Management
* Construction Cost Estimation and Cost Control

**Politecnico di Milano:** Polimi Open Knowledge

* Fundamentals of Operations
* Fundamentals of management accounting

**Indian Institute of Technology [IIT]:** NPTEL

* Matrix Method of Structural Analysis
* Engineering Mechanics : Statics and Dynamics

**University of Pennsylvania:** Coursera

* Designing Cities

**PrincewaterhouseCoopers [PwC]:** Coursera

* Data Visualization with Advanced Excel

**Georgia Institute of Technology:** Coursera

* Mechanics of Materials I : Fundamentals of stress strain and axial loading
* Mechanics of Materials II : Thin wall pressure vessels and Torsion
* Mechanics of Materials III : Beam Bending

**National Taiwan University [NTU]:** Coursera

* 3D CAD Applications

**Google:** Coursera

* Building Conversational Experiences with Dialogflow

 **IBM:** Coursera

* Building AI powered Chatbot without programming

 **Yonsei University** (Coursera)

* Sustainable Development in 21st Century

**EXTRA-CURRICULAR:**

* Member of American Society of Civil Engineers **[ASCE]**
* Member of The Institution of Engineers (India) **[IEI]**
* Participated in **India Innovation Challenge Design Contest** 2019 by the Department of Science and Technology **(Government of India)** and **Texas Instruments**.
* Participated as **Event Head** of **Technical Quiz Competition** held under Student Technical Symposium and Exposition organized by our college (2019).
* Participated as **volunteer** in **Zonal Research Competition** held by University of Pune (2017).