Vidya Dhopate

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EDUCATION

Maharashtra Institute of Technology, Pune (MIT-WPU)   **CGPA: 9.18**

Bachelor of Technology in Computer Science and Engineering   *July 2017 – Present*

- **Relevant Coursework:** Data Warehousing and Data Mining, Big Data Analytics, Artificial Intelligence, Bioinformatics.
- **Teaching Experience:** Co-hosted a 4-day computer vision basics workshop for teaching 59 students.
- **Volunteering:** Explained an IoT project to underprivileged children through an exhibition arranged by college.

WORK EXPERIENCE

Technical Intern   *Feb 2020 – May 2020*

Company Name

- Created the theory and lab material for the **Microservices** course and explored sub-domains within **Docker** and **Kubernetes**.
- Acted as an assistant in delivering the Microservices course for the certified **corporate training** of the enrolled students by **demonstrating lab experiments** and solving doubts.
- Created a **tool for HR Analytics** which uses Django framework to determine the MBTI Personality Type of an employee and automates scoring of recruitment candidates using Fuzzy TOPSIS.
- Collaborated with co-workers on IBM's **Employee Attrition dataset** to find patterns underlying poor performance by employees.
- Authorized to be the **LinkedIn administrator** of the company's LinkedIn profile.

Project Management Intern   *Nov 2020 – Present*

Company Name

- Established logical flow of dialogue for development of an **Alexa skill** which acts as a medicine reminder.
- Co-ordinate between two teams working on the Medicine Reminder project as the **team co-ordinator**

Human Resource Intern   *June 2019*

Company Name

- Learnt about the **welfare policies** of the company formulated for the workers.
- Understood the worker **payroll and attendance** systems.

PROJECT HIGHLIGHTS

HealthClick | *Flask, Bootstrap, Dialogflow, MongoDB*

- Developed a telemedicine website using Flask and Bootstrap having multiple features.
- Designed a feature for ordering medicines through the website having a MongoDB backend.
- Implemented a dialogflow powered FAQ chatbot which answers questions related to the hospital and general health. [Code Link]

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Museum Surveillance System | *Python, openCV, Raspberry Pi, IoT*   *(Group Project)*

- Integrated the hardware components comprising of camera, buzzer and IR sensor with the surveillance software using Raspberry Pi 3 for processing.
- Employed openCV to operate on the feed received from the camera and detect suspicious activity.
- Used python to automate the process of alerting museum authorities through an API. [Code Link]

Publications

Vidya Dhopate and Vaibhav Bahel (2020); **IT Projects in Top 3 Smart Cities in India: Existing Solutions, Challenges and Discussions for Future Scope**; International Journal of Scientific and Research Publications (IJSRP) 10(11) (ISSN: 2250-3153), DOI : 10.29322/IJSRP.10.11.2020.p10741. [Paper Link]

MOOCs Key Learnings

Deep Learning Specialization (5 Courses) | **deeplearning.ai** (Coursera)
- **Neural Networks and Deep Learning:** Logistic Regression, Gradient Descent, Vectorization, Activation Functions, Forward & Backward Propagation, Parameters vs Hyperparameters.
- **Improving Deep Neural Networks:** Train/Dev/Test Splits, Bias & Variance, Dropout Regularisation, Vanishing/Exploding Gradients, Mini-Batch Gradient Descent, Adam Optimization, Softmax Regression.
- **Structuring Machine Learning Projects:** Avoidable Bias, Error Analysis, Transfer learning.
- **Convolutional Neural Networks:** Edge Detection, Padding, Pooling Layers, ResNets, Bounding Boxes, Anchor Boxes, YOLO Algorithm, Triplet Loss, Neural Style Transfer.
- **Sequence Models:** RNNs, GRUs, LSTMs, B-RNNs, Word Embeddings, Beam Search, Attention Model, Trigger Word Detection.

Introduction to Sustainability Course | University of Ilinois (Urbana-Champaign) (Coursera)
- Growth Curves, Malthusian Catastrophes, Demographic Transitions, Population Pyramids, Tragedy of Commons, Oil & Renewable Energy, Water trends, Agricultual limits, Negative Externalities, Biodiversity, Life Cycle Assessment.

Co-Curriculars

- **IEEE SheHacks Hackathon (2020)**
  Ranked among the **Top 30**. Created a telemedicine website called HealthClick to be used by hospitals to enhance patient comfort and experience.

- **Bhopal Smart City Hackathon 2.0 (2019)**
  Ranked among the **Top 80**. Developed a project titled Smart Sadak which is a smart system that uses RFID tags for monitoring traffic and detecting traffic violations.

- **Speaker Curator at TEDxMITWPU (since 2018)**
  Communicated with distinguished personalities for giving a TEDx talk through the TEDxMITWPU club and helped them with the **drafting of the TEDx speeches**. Also helped in marketing and content writing departments.

- **Core-Committee Organizer at Aananta Tantra club (since 2019)**
  Organized **technical workshops** in college by being in-charge of marketing and content-writing. Helped workshop attendees set up environment for the workshops and answered their questions.

Technical Skills

Languages: Python, C/C++, JavaScript, SQL, MongoDB, LaTeX, HTML/CSS.
Frameworks: Node.js, React, Android Studio, Flask, Bootstrap, D3.js.
Libraries: Keras, pandas, NumPy, Matplotlib, sci-kit learn, sci-kit image.

Extra Curriculars

Scuba Diving: Advanced Open Water(AOW) Certification by PADI.
Yoga: Practioner of yogic exercises, meditation and nutrition under a certified yoga teacher.
Dance: Student at the Dancing Curve Studio for Contemporary and Hip-Hop styles.