Surendra Kumar Vishwakarma

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Well organised, creative and self-motivated. Eager to learn about new emerging technologies.

Work experience

Internship
Company : Tech Mahindra
Duration : 6 months (6 January 2021-8 June 2021)
Predictive Model for Harmful Insects in Agriculture : Insect Bank.
Role and Responsibilities : Model Training, image labeling, image augmentation, Model testing.

- Developed a machine learning model predicting harmful insects, aiding farmers in pest management.
- Collected and processed data on weather, crops, and pests; engineered key features.
- Achieved an accuracy of 70% - 90%.
- Deployed using Flask and Docker, integrating with a farmer-friendly interface.

Technologies used: YOLO, Python, scikit-learn, TensorFlow, Pandas, Docker, AWS.

Project 1 Duration : 2 months (January 2022-February 2022)
Integrated Churn Prediction and Customer Segmentation Framework.
Role and Responsibilities : Exploratory Data Analysis (EDA), Model Taining, Model Testing, Documentation.

- Developed a churn prediction model for a telecom company to proactively identify at-risk customers.
- Created a customer segmentation framework for an e-commerce platform, enhancing marketing strategies through detailed behavioral analysis and segmentation.

Technologies used: Python, Scikit-Learn, TensorFlow, Jupyter Notebooks, Git.

Project 2 Duration : 2 months (2019)
Garlic and Groundnut Peeling Machine for Household and Commercial.
Role and Responsibilities : Design and making of custom jars, Arduino programming, circuit building.

- Designed and built an automated peeling machine for garlic and peanuts using a custom jar, Arduino Uno, AC motor, digital input buttons, and a speed controller.
- Developed the control system with an Arduino Uno, programming it to handle motor speed adjustments and operation timing.
- Integrated digital input buttons for user control and a speed controller to optimize peeling efficiency.
- Conducted extensive testing to ensure reliable performance and consistent peeling quality.

Technologies used: Arduino, AC Motor, Embedded C/C++, Electrical Wiring.

Educational Background
BTech in Computer Science and Engineering. (2018-2022)
MGM's Jawaharlal Nehru Engineering College, Aurangabad, Maharashtra.
CGPA : 8.05 Percent : 75.5
HSC/Intermediate. (2016-2018)
SNBP School & Jr. College, Morwadi Pimpri, Pune, Maharashtra.
Percent : 70.92
SSC/Matriculation. (2016)
M.B. DAV Public School, Lohardaga, Jharkhand.
CGPA : 8.4   Percent : 79

Entrance Examination
JEE Main : 62   Advanced : 18
GATE : 1.Year 2021 Score : 18 (CSIT)   2.Year 2023 Score : 29 (DA)

Professional Skills

- **Language :** Python, C, java.
- **Web Development :** HTML, CSS, JavaScript, PHP.
- **OS :** Linux, Windows, MAC
- **Cloud :** AWS, Azure.
- **Database :** MySql, MongoDB
- **Networking :** TCP, UDP, routing, IP address, subnetting.
- **Subversion :** Git, Github, Bitbucket, Azure Repos.
- **Application :** MS Office, Outlook, PuTTY, WinZip, WinRAR.
- Artificial intelligence.
- Machine Learning.
- YOLO.
- TensorFlow.
- Kaggle.
- Anaconda.
- IoT.
- Arduino UNO.
- Raspberry Pi.
- Assembly Language.

Certification/Short Courses

- Certificate at the Institute of Engineers, Project. Competition, Aurangabad.
- Fundamentals of IoT.
- Fundamentals of Digital Marketing by Google.

Languages

- English
- Hindi
- Marathi

Additional Information

- Best Project and Winner of ANKUR 1.0. (First Year Mini Project).
- Our team also got an industrial internship offer from Mr.Yogesh Pawar, MD of IPRO3D Technologies LLP.

Hobbies

- Reading Books.
- Playing Badminton.
- Chess.
- Art & Craft.