

# VITHIKA PUNGLIYA

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“I would describe myself as a deterministic, passionate and hardworking person.”

## EDUCATION

### VISHWAKARMA INSTITUTE OF TECHNOLOGY

Bachelor of Technology in Artificial Intelligence and Data Science

Pune, India

Expected June 2024

**Cumulative GPA: 9.49/10.0** (present)

**Relevant Coursework:** Data Science, Advanced Data Structures, Database Management & Data Mining, Computer Networks, Data Structures with Python, Computer Organization & Architecture, Internet of Things, Object Oriented Programming in Java.

### FERGUSSON COLLEGE

Class 12 (HSC) Examination – **88.8 %**

Pune, India

March 2020

### ST MARY'S SCHOOL

Class 10 (ICSE) Examination – **95.8 %**

Pune, India

March 2018

## PROJECTS

### *Deep Learning Based Application for Fresh Produce Yield and Price Forecasting Based on Station-Based Soil Parameters.*

- The project is a multivariate time series problem statement which is under current research in the University of Waterloo, Canada.
- The price and yield of Strawberry's is being forecasted using advanced Deep Learning techniques like LSTM.
- Furthermore, a comparison is drawn between conventional statistical methods and Deep learning Methods.

### *Compliance Prediction of Blight Tickets*

- The project aims to find the compliance towards Blight Ticket being paid on time or not.
- 8 Regressors and 8 Classifiers to perform the above-mentioned problem and have got a Highest AUC score of 0.806.
- Important take away from this project is that Regressors can be used as Classifiers for performing Binary Classification and achieve at par results.

### *Sudoku Solver using Image Processing and CNN*

- The project uses Image Processing as well as Deep learning for solving a Sudoku

### *Movie Recommendation and Sentiment Analysis*

- This project helps to find out the similar movies and classifies the reviews as either good or bad.
- The methodology of the project has been published in Elsevier Journal.

### *Sugarcane Leaf Disease Detection*

- Detects abnormalities present on the leaves of the Sugarcane plant and classifies/recognizes the disease accordingly.
- Created the dataset of 224 images containing 3 classes – Healthy, Red Rot, Red Rust by visiting a local farm.

### *Emotion Detection*

- The aim of the project/ hackathon was to create an Emotion Recognition Model to classify 6 emotions.
- The model was trained on a video's dataset and the transfer learning approach was used to build the model.

### *Chatbot using LSTM Neural Networks*

- Creating an AI Chatbot, on a self- made dataset, by using LSTM, for solving club activities related doubts.

## CURRENT INTERNSHIPS

- Research Internship at Institute of Technology, Kharagpur.

## CURRENT PROJECTS

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- Video Metadata generation and classification using Audio and Video Deep Learning Approaches
- Resume Parser and Job Recommender using Natural Language Processing

## PUBLICATIONS

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- Movie Recommendation and Sentiment Analysis: [Link](#)
- Sugarcane Leaf Disease Classification using Transfer Learning in IEEE Explore (to be published soon)
- Digital Medical Record for Soldiers.

## SKILLS

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**Research, Data Science, Machine Learning, Communication, Leadership, Teamwork, Team Management.**

**Languages:** C, Python, Java, SQL, R., C, Arduino Language.

**WebTech:** React- LoopBack- MongoDB, GitHub.

**Tools and Libraries:** NumPy, Pandas, Matplotlib, Sklearn, Keras, Tensorflow, PIL, OpenCV.

## ORGANIZATIONS

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### **The Robotics Forum- Robosoft.**

*Technical Member/ Machine Learning Domain*

*Pune, India  
June 2021 – Present*

- Led a workshop on Deep Learning and Fundamentals of Java Programming with 80+ participants.
- Worked on Machine Learning and Deep Learning Projects:
  1. Human Activity Recognition using YOLO
  2. Traffic Sign Classification using CNN
  3. Bird Sound Recognition using Transfer Learning
  4. Using the Lahman Dataset for finding Career Trajectories in Baseball
  5. Creating SAFAR- An E-Tourism Website for Booking Tickets to Monuments and Museums.

## VOLUNTEER EXPERIENCE

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### **Pune Ploggers – A Pune based organization that carries out plogging activity.**

- Plogging drives are carried out on the weekend and the waste on hill slopes and riverbanks is gathered.

### **Green Hills – Tree Plantation on Hills**

- With the help of this organization, we have planted around 1000 trees on the hill slopes around Pune.

### **ReBooks – Redistribute your used Books**

- This organization collects the used books and distributes them amongst the needy. This was partnered with the MyPustak.com and the books were made available on their website too.

## ACHIEVEMENTS & CERTIFICATIONS

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- Received the award of Ms. Freshers in Freshman Year.
- Ranked 1st out of 80+ teams at the Internal Smart India Hackathon (2022) conducted at Vishwakarma Institute of Technology.
- Certified by University of Michigan in Applied Machine Learning, Applied Text Mining and Data Science.
- Certified by Nvidia in Fundamentals of Deep Learning.
- Certified by Vodafone in Fundamentals of Linux and Data Analytics and Cloud Computing.
- Certified by Duke University in Math Skills for Data Science.