

# VYBHAV K

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## OBJECTIVE

To leverage my foundation in Electronics and Communication, programming, and applied mathematics to contribute to innovative, interpretable, and ethical AI solutions, while advancing my expertise in machine learning and data science through research and real-world applications.

## EDUCATION

- Vidya Vikas Institute of Engineering and Technology** India  
• *Bachelor of Engineering in Electronics and Communication; CGPA: 8.71* 2023
- Nisarga Independent PU College, Kollegal** India  
• *Pre-University Course (Class XII); Aggregate: 88.6%* 2018
- Nisarga Vidyanikethana High School, Kollegal** India  
• *Secondary School Leaving Certificate (Class X); Aggregate: 97%* 2016

## SKILLS SUMMARY

- Programming Languages:** Python, SQL, Java, JavaScript
- Frameworks / Libraries:** Scikit-learn, TensorFlow, Keras, Pandas, NumPy, Matplotlib, Seaborn, Flask, Django
- Tools / Platforms:** Jupyter Notebook, Git, Azure DevOps
- Data Skills:** Data Cleaning, Analysis, Visualization, Machine Learning, Deep Learning, SQL
- Soft Skills:** Leadership, Time Management, Analytical Thinking, Problem Solving

## PROFESSIONAL EXPERIENCE

- Tech Mahindra** India  
• *Associate Software Engineer* 2024 - Present
  - EY Mobility Pathway:** Developed and maintained questionnaire module for a global mobility platform; collaborated with functional teams to implement features and resolve frontend issues.
  - Awards & Recognition:** Earned Bravo and Pat on the Back (POB) awards for exceptional contributions.
- Learnbay** India  
• *Full Stack Software Development Certification / Learning Experience* 2024
  - Full Stack Development:** Completed 9-month program, gaining frontend and backend development skills.

## PROJECTS

- Serpenobot:** a snake-inspired surveillance robot designed for uneven terrains; It has a camera mounted on its head for surveillance and the movement is controlled by the operator.
- Vend-Eco-Friendly Vending Machine:** Designed a waste-segregating vending machine with user rewards to promote recycling.
- Data Science Projects:** Titanic Dataset Analysis, Time Series Forecasting, Customer Segmentation (K-means), Recommender System, House Price Prediction, Image Classification (CNN), Churn Prediction

## CERTIFICATIONS

- IBM Data Analyst Professional Certificate:** Coursera
- SQL for Data Science:** Coursera
- Mathematics for Machine Learning:** Coursera / DeepLearning.AI
- Machine Learning Specialization:** Coursera / DeepLearning.AI
- Deep Learning Specialization:** Coursera / DeepLearning.AI
- Generative AI using LLMs:** Coursera / DeepLearning.AI

## PUBLICATIONS

- Serpenobot Research Paper:** Published by World Leadership Academy (ISBN: 978-93-94318-07-6)

## HONORS AND AWARDS

- CMTI Design and Innovation Clinic, 2022:** 3rd Runner-Up for Serpenobot Project
- Tech Mahindra:** Bravo and Pat on the Back (POB) Awards for EY Mobility Pathway