

# Vilakshan Panchal

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## Education

**National Institute of Technology, Delhi,**

M. Tech in Computer Science and Engineering, CGPA: 7.68

Sept 2023 – Sept 2025

**J.C Bose University (YMCA), Faridabad**

B. Tech in Electronics and Communication Engineering, CGPA: 7.15

Aug 2018 – Aug 2022

## Technologies

**Languages:** Python & C

**Skills:** PowerBI, JIRA, Figma, Regularization Techniques, Machine Learning and Deep Learning Techniques, Computer Vision on hardware and Business Development.

## Experience

**Machine Learning Intern** | Apprenticeship

Mar 2023 - June 2023

*Pantechlearning*

- Spearheaded optimization efforts on existing ML infrastructure resulting in increased speed for training processes; implemented changes cut down processing times from 72 hours to just under 24 hours on specific tasks.

**AI & ML Intern** | Trainee Intern

Dec 2022 – Feb 2023

*Languify*

- Created innovative strategies to mitigate overfitting issues; spearheaded efforts that identified key variables impacting model accuracy and devised actionable findings which fixed three major causes contributing to inaccuracies.

## Projects

**Analyzed carbon emissions using machine learning for environmental impact assessment**

Nov 2024

- Collected and preprocessed large datasets of carbon emission metrics from multiple sources.
- Developed advanced forecasting models analyzing over 1 million data points of vehicular activity, yielding actionable predictions that informed local policy changes aimed at reducing air pollution levels by targeted measures.

**Designed a robust real estate web interface comprising UI/UX elements.**

June 2024

- Crafted advanced Power BI reports tailored for specific user needs, facilitating data-driven insights that empowered 30+ real estate professionals to make informed business decisions based on visualized analytics.

**Created interactive dashboard to track and analyze online sales data.**

July 2024

- Designed innovative dashboards featuring multifaceted data manipulations that integrated over 10 distinct metrics from varied sources. This initiative provided users with comprehensive views of performance trends in real-time analytics.

**Constructed, operated, and maintained a quadcopter (drone) for various applications.**

April 2019

- Engineered and fine-tuned a quadcopter for aerial photography, achieving successful operation in over 30 distinct projects; conducted routine maintenance that led to zero operational failures during critical missions.

## Certifications

- Microsoft Certified Azure AI Fundamentals.
- Completed Elements of AI course from University of Helsinki.

## Extra-Curricular Activities

- *Session Coordinator, IEEE Conference at NIT Delhi*- Handled logistics, assisted speakers, and ensured smooth event execution, enhancing skills in teamwork and communication.
- Secured Rank 12 in Haryana Zone in 1st Level of 16th SOF National Cyber Olympiad held during October, 2016.
- Secured Bronze Medal in Powerlifting at the All India Inter NIT Championship, held at NIT Surathkal.