

# AKHILESH JOSHI

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## Objective

Enthusiastic and driven aspiring researcher with a strong foundation in software development and data science. Passionate about leveraging technology and innovative methodologies to derive impactful, data-driven insights. Skilled in leadership, communication, and teamwork, with a commitment to continuous learning and contributing meaningfully to cutting-edge research.

## Education

**Shri Basaveshwar Public School, Basavakalyan.** june 2016 – June 2020  
*High School, CBSE*

**Tungal Schools, Vijayapura.** June 2020 – June 2022  
*Pre University College, PCMCs*

**KLE Technological University** Nov 2022 – June 2026  
*Bachelor of Engineering , Computer Science*

## Skills

- Programming Languages: C, C++, Python, SQL
- Developer tools: VS Code, Matlab, Jupyter Notebook, Google Colab, Overleaf, GitHub, Slack, Canva.
- Technologies/Frameworks: Git, Pytorch, scikit-learn, Pandas, NumPy, Matplotlib, Seaborn.
- Strengths: Leadership, Creativity, Adaptability, Design Thinking, Agile management.
- Soft Skills: Public Speaking, Graphic Designing, Photography.

## Research Experience

**Exploratory Data Analytics of COVID-19 Vaccination Drive in India: Insights and Lessons Learnt.**–  
*Presented at INNOVA 2024 and Included in IEEE Xplore*

- This study examines COVID-19 vaccination drive in India, highlighting disparities by age, gender, and region.
- Challenges include addressing gaps in second-dose uptake and regional inequities.

**Classification of Watermelons based on Ripeness Using Multimodal Data.** –

*Presented at (ITAI 2025) and is included in Springer LNNS*

- Established a robust understanding of the correlation between the visual and acoustic properties of watermelons.
- Used Predictive models such as VGG-16 for Image processing, MFCC for feature extraction and signal processing concepts.

## Notable Projects

**Classification of Watermelons based on Ripeness Using Multimodal Data.** | Deep learning, Signal Processing.

- Conducted ripeness classification using visual feature extraction, acoustic signal processing, and machine learning. Investigated the impact of texture and firmness on ripeness prediction and sweetness estimation.

**AlumniBridge** | Web Development, Database management.

- This Project secured us 4th position in Ideathon 2024 conducted by KLE CTIE.
- A platform to provide interaction and collaboration among alumni and current students, focusing on: Enhancing Alumni Engagement, Providing Mentorship and Guidance, Building a Supportive Network.

**Exploratory Data Analysis of COVID-19 Vaccination Drive in India.** | Data Analysis and Machine learning.

- Analyzed the distribution and administration of COVID-19 vaccines across different states in India. Address challenges, and predict future vaccine needs.
- Best Project of the year 2024 under the Professional course Exploratory Data Analytics(EDA).

**Medical Appointment System** | Object Oriented Programming, C++ Programming Language.

- Designed classes and functions in C++ to handle patient appointments, healthcare providers, medical records, appointment scheduling, and patient management for the medical appointment booking system,

## Achievements

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**WiDS Datathon challenge 2** | Women in Data Science (WiDS) Worldwide **2024**

- worldwide ranking: 349
- Predicted the duration of time it takes for the patients to receive metastatic cancer diagnosis, used Ridge regression model (L2 regularization).

**HackConclave'24** | IIT Guwahati Research Park **2024**

- Finalist
- Performed Data analytics and Machine learning on World COVID-19 data under the theme - AI for Society.

**WiDS Datathon 2025** | Women in Data Science (WiDS) Worldwide **2025**

- Registered for this Challenge.
- Datathon 2025 Challenge Theme: Unraveling the Mysteries of the Female Brain

## Courses

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- Machine Learning Specialization : Deeplearning.ai, Stanford university.
- Python for Data Science : IBM
- Geodata Analysis Using Python : Indian Space Research Organization

## Extracurricular Activities

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- Personal Portfolio Website : <https://akhileshjportfolio.netlify.app/>
- role event
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