

# Sujal Kumar Sahni

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## EDUCATION

**National Institute of Technology Karnataka**

*Bachelor of Technology*

Surathkal

Nov 2022 – May 2026

**Guru Nanak Public School Bidar**

*Senior Secondary (CBSE)*

Bidar

Jun 2019 – Mar 2021

**Kendriya Vidyalaya AFS Bidar**

*Matriculation (CBSE)*

Bidar

Jun 2019

## PROJECTS

**Automated Wine Quality Analysis using MLOps** | *DVC, MLflow, Azure* | [GitHub](#)

June 2024 – Present

- Implemented a comprehensive MLOps pipeline using GitHub for version control, DVC for data versioning, and MLflow for experiment tracking.
- Automated workflows with CI/CD principles using GitHub Actions, leading to more efficient deployment processes.
- Deployed the model on Azure, enhancing scalability and ensuring high availability.
- Streamlined model deployment time through continuous integration and deployment practices.

**MoodTunes** | *PyTorch, TensorFlow, Flask* | [GitHub](#)

Dec 2023 – Jan 2024

- Developed MoodTunes, an application that suggests Spotify playlists based on user mood using the BERT model for sentiment analysis.
- Utilized Flask to create a user-friendly interface and manage backend services for seamless interaction.
- Integrated Spotify API to fetch and curate playlists, offering personalized music recommendations.
- Achieved high accuracy in mood detection, leading to relevant playlist suggestions and positive user feedback.

**TweetShield** | *Python* | [GitHub](#)

Aug 2023 – Oct 2023

- Developed TweetShield to combat cyberbullying on Twitter, effectively reducing flagged harmful content.
- Implemented Word2Vec embeddings for text analysis, enhancing detection accuracy.

## TECHNICAL SKILLS

**Languages:** C++, Python

**Frameworks:** TensorFlow, PyTorch, Flask

**Developer Tools:** Azure, GitHub, DVC, MLflow, GitHub Actions, Docker

**Libraries:** Pandas, NumPy, Matplotlib, Seaborn, Scikit-Learn

## KEY COURSES TAKEN

Introduction to Python Programming, Machine Learning, Deep Learning

## POSITIONS OF RESPONSIBILITY

**Media Manager**

E-Cell NITK

*Apr. 2022 – Present*

- Managed a team of media executives to create and schedule Instagram posts for Ecell, resulting in a 30% increase in follower engagement and a 10% growth in follower count over three months.
- Led the media team for the E-Summit Event, designing and publishing promotional posts and banners, contributing to a successful event with over 300 attendees.

**Volunteer**

NSS NITK

*Apr. 2022 – Present*

- Assisted in organizing NSS events, contributing to the planning and coordination of activities.
- Participated in campus cleanup drives helping to maintain a clean and sustainable campus environment.