

# UJJWAL PANCHAL

Indore, Madhya Pradesh

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## Education

**National Institute of Technology Karnataka (NITK), Surathkal**

**2023 – 2026**

*Master of Computer Applications (MCA) - CGPA: 8.9*

*Karnataka, India*

**International Institute of Professional Studies (IIPS), DAVV, Indore**

**2020 – 2023**

*Bachelor of Computer Applications (BCA) - CGPA: 8.6*

*Madhya Pradesh, India*

## Coursework

- Database Management System
- Data Structures and Algorithms
- Object Oriented Programming
- Computer Networks
- Machine Learning
- Operating System
- Web Development

## Projects

**Wildfire Risk Predictor** 🔗 | *Python, Scikit-learn, Ridge Regression, Flask, Next.js (React)*

- Built an ML-based web app to predict forest fire risks (Low–Extreme) with 85% accuracy on test data.
- Designed an interactive dashboard with < 2s real-time predictions and 1,000+ record history.
- Optimized frontend with Next.js, improving cross-device load speed by 30%.
- Implemented preprocessing and feature engineering on weather data to boost model performance.

**AgriGuide (Crop Recommendation System)** 🔗 | *Python, Flask, Scikit-learn, Pandas, NumPy*

- Developed a classification system improving crop prediction accuracy by 18% over baseline models.
- Trained on datasets with 22,000+ samples across soil nutrients, temperature, humidity, and rainfall.
- Created an intuitive Flask web app with form-based input, delivering instant recommendations for farmers and students.
- Implemented data preprocessing pipelines (scaling, normalization) and integrated a serialized ML model (Pickle) for real-time predictions.

**EduVerse (E-Learning Platform)** 🔗 | *MERN, JWT, REST API*

- Developed a full-stack learning platform enabling instructors to upload lectures and students to learn distraction-free.
- Deployed secure authentication using JWT (Access & Refresh Tokens) and Bcrypt.
- Designed a responsive frontend with React, Tailwind CSS, and Redux for seamless UI/UX.
- Enabled real-time notifications, Q&A threads, and analytics dashboards for instructors.

## Technical Skills

**Languages:** C, C++, Python, JavaScript, SQL, HTML, CSS

**Frameworks & Libraries:** React.js, Next.js, Express.js, Node.js, Mongoose, Tailwind CSS

**Data Science & ML :** NumPy, Pandas, Scikit-learn, Matplotlib, Seaborn

**Databases :** MySQL, MongoDB

**Developer Tools:** VS Code, Git, GitHub

## Coding Profile

- Solved **500+** problems on LeetCode 🔗
- Solved **350+** problems on GeeksforGeeks 🔗

## Leadership / Extracurricular

**Placement Coordinator - MCA**

**July 2025 - Present**

*Career Development Centre (CDC) NITK*

*NITK Surathkal*

**PG Sports Convener**

**Mar 2025**

*Managed sports events with 500+ participants smoothly.*

*NITK Surathkal*

**Mess Counsellor**

**Nov 2024 - Apr 2025**

*Managed operations and resolved grievances for 400+ students.*

*NITK Surathkal*