

# SATHVIKA K P

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## Education

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### B. Tech in Artificial Intelligence and Data Science

St. Joseph's College of Engineering, 2022 - Present

CGPA: 8.72/10.0

## Skills

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- **Programming:** Python, SQL
- **Data Analysis:** Pandas, NumPy, Matplotlib, Seaborn
- **ML/AI:** Scikit-learn, TensorFlow, CNNs, EfficientNet, YOLO
- **Database:** MySQL
- **Tools:** Git, GitHub, Jupyter, VS Code
- **Other:** Data Preprocessing, Feature Engineering, Deployment, API Integration

## Projects

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- **Brain Tumor Detection using EfficientNet** [GitHub]
  - Built and trained a CNN (EfficientNetB0) to classify MRI scans into glioma, meningioma, pituitary tumor and healthy tissue.
  - Implemented normalization, augmentation and segmentation-aware preprocessing to address low contrast and class imbalance.
  - Evaluated with sensitivity, specificity, precision, recall, F1-score and ROC-AUC, achieving accuracy comparable to radiological benchmarks.
- **Loan Prediction System** [GitHub]
  - Developed ML model to predict loan approval using applicant features such as income, credit history and dependents.
  - Performed preprocessing: missing value handling, categorical encoding and feature scaling.
  - Compared Logistic Regression, Random Forest and XGBoost, selecting best model via cross-validation.
  - Achieved strong accuracy and interpretability, with credit history and income as key predictors.

## Leadership & Certifications

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- **LinkedIn Manager** – Dept. of AI & DS, SJCE
  - Managed department LinkedIn page, posting events, news and achievements to boost engagement.
- **Coordinator** – Data Verse Symposium, SJCE
  - Organized national-level symposium, handling logistics, speaker coordination and participant outreach.

## Experience

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- **Software Developer Intern** – LCS Controls Pvt Ltd
  - Built a PyQt5 desktop app with calculator and secure login functionality.
  - Integrated Qt Designer components in PyCharm, enhancing usability and maintainability.

## Certifications

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- NPTEL – Programming in Java
- NPTEL – Database Management System
- NPTEL – Python for Data Science
- UDEMY – Python and Django Framework

## Achievements

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- **Winner – SHE CAN CODE:** 1st place in coding event, demonstrating programming and problem-solving skills.