Utpal Raj

B. Tech
CSE (Data Science)
SRM Institute of Science & Technology
Kattankulathur

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PROFESSIONAL SUMMARY

A motivated B. Tech Data Science student with experience in C, C++, Python, and Java. Developed projects including a text comparison tool and a real-time age and gender detection system using technologies like OpenCV and TensorFlow. Interested in web development, data science, and computer networks, with a focus on improving problem-solving and teamwork skills through hands-on projects and certifications in programming and data science.

EDUCATION

SRMIST, Kattankulathur
B Tech CSE (Data Science)
2027
CGPA/Percentage: 9.42

Saint Thomas Senior Secondary School
Intermediate (CBSE)
2022
CGPA/Percentage: 88.2

Saint Thomas Senior Secondary School
Matriculation (CBSE)
2020
CGPA/Percentage: 92.8

PERSONAL PROJECTS

- ### Text Comparison Tool (August 2024)
  - Created a Python-based GUI using Tkinter for comparing text files or manually entered text.
  - Implemented word-by-word comparisons with similarity percentages displayed.
  - Integrated functionality to highlight matching words for easy visual comparison.

  Technologies: Python, Tkinter, nltk, difflib.

- ### Age and Gender Detection System (September 2024)
  - Developed a real-time age and gender detection system using OpenCV and deep learning models.
  - Implemented facial detection, age/gender prediction, and landmark mapping from webcam video.
  - Mapped 68 facial landmarks for detailed facial analysis.

  Technologies: Python, OpenCV, TensorFlow, Caffe, Machine Learning

- ### Simple Calculator (October 2024)
  - Developed a basic calculator using Java and Swing for performing arithmetic operations.
  - Created an intuitive GUI with dedicated buttons and a display area to show input and results.
  - Implemented functionality for handling clear and backspace operations

  Technologies: JavaSDK, Java Swing

TECHNICAL SKILLS & INTERESTS

- **Languages**: C, C++, Python, Java
- **Developer Tools**: Git, CSS, HTML, SQL
- **Areas of Interest**: Web Development, Data Science, Computer Networks, DSA

CERTIFICATIONS

- **Python 101 for Data Science** (IBM)
- **C for Everyone: Programming Fundamentals** (University of California, Santa Cruz)
- **Certificate of Achievement** (HackWithIndia)

KEY COURSES UNDERTAKEN

– Computer Science
Programming for Problem Solving[#], Object Oriented Programming and Design, Fundamentals of Data Science, Data Structure and Algorithms[#], Operating Systems[#], Advanced Object-Oriented Programming

– Basic Engineering
Calculus and Linear Algebra, Advanced Calculus and Complex Analysis, Electrical and Electronics Engineering, Basic Civil and Mechanical Workshop[+], Engineering Graphics and Design[+]

– Miscellaneous
Semiconductor Physics and Computational Methods[#], Introduction to Computational Biology, Chemistry, Philosophy of Engineering[#], Spanish, Environmental Science

[#](Lab + Theory), [+](Lab Based)

EXTRACURRICULAR ACTIVITIES

- Chess (Participated in inter-hostel chess competitions in college)
- Sketching (Active at school level)
- Kabaddi (Played at school level)
- Cricket
- Football