VARUN AVIRNENI

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OBJECTIVE

I am a dedicated Computer Science graduate with a robust foundation in algorithms, software development, and machine learning. I am eager to further develop my expertise in cloud computing and data science to contribute to significant technological advancements. My commitment lies in leveraging modern technologies and innovative methodologies to address real-world challenges effectively.

EDUCATION

Bachelor of Computer Science and Information Technology August 2021 – May 2025 (Ongoing)
KL UNIVERSITY, Guntur, India
- ✓ *CGPA*: 8.57/10.0
- ✓ *Relevant Coursework*: Data Structures & Algorithms, Computer Networks, Machine Learning, Cloud Computing, Database Systems, Software Engineering, Operating Systems
- ✓ *Activities*: Member of the Computer Science Club, participating in hackathons, coding competitions, and organizing workshops.
- ✓ *Projects*: Worked on a variety of academic and personal projects including machine learning, software development, and cloud computing.

MPC (Mathematics, Physics, and Chemistry)   2019 – 2021
NARAYANA JUNIOR COLLEGE, Vijayawada, India
- ✓ Committed to building a strong foundation in mathematics, physics, and chemistry, with a focus on mastering analytical thinking, problem-solving, and scientific reasoning.

Secondary School Certificate (SSC)   2019
SRI VIJNANA VIHARA ENGLISH MEDIUM HIGH SCHOOL, Vijayawada, India
- ✓ Graduated with excellent grades, building a foundation for further academic excellence in technical fields.

PROJECTS

Employability Consultancy System   2024
KL UNIVERSITY
- ✓ Developed a employability consultancy system designed to scale efficiently on cloud platforms (AWS).
- ✓ Implemented secure data storage and management for personal data of users, utilizing encryption and cloud storage features.
- ✓ *Technologies*: Python, Flask, AWS, MySQL, Docker.

Travel Tourism And Hospitality Management System   2022
KL UNIVERSITY
- ✓ Engineered a comprehensive full‑stack web application to streamline the management of diverse travel packages, encompassing features such as booking, customization, and payment processing.
- ✓ Designed the user interface to ensure a seamless experience for users.
- ✓ *Technologies*: Python, Flask, HTML, CSS, JavaScript, SQL.

ONLINE BOOK STORE   2023
KL UNIVERSITY
- ✓ Developed a Online Book Store system using collaborative filtering and content‑based filtering algorithms to suggest personalized Books to users.
- ✓ Integrated the backend with a MySQL database for storing user preferences and Book details.
- ✓ *Technologies*: Java, Spring Boot, MySQL, RESTful APIs.

EXTRACURRICULAR ACTIVITIES

Member, KL University Computer Science Club   2023 – Present
- ✓ Consistently participated in hackathons and coding competitions, culminating in a fifth‑place finish at a university‑level event.
- ✓ Contributed to a vibrant tech community by organizing coding workshops, tech talks, and seminars to promote knowledge sharing and peer learning.
- ✓ Actively engaged in collaborative project development and technology discussions within club activities, fostering teamwork and innovation.

Volunteer, KL University   2022 – 2023
- ✓ Mentored high school students, introducing them to the fundamentals of programming and nurturing their problem‑solving skills.
- ✓ Helped young people develop programming skills by organizing and leading beginner‑level workshops on Python and HTML/CSS.
- ✓ Contributed to a vibrant and collaborative learning community by working with a team to foster knowledge sharing and mutual support.

SKILLS

Programming Languages
- ✓ Python, C, Java, SQL, HTML, CSS

Frameworks/Tools
- ✓ Flask, Spring Boot, Hibernate, Microservices

Cloud Platforms
- ✓ AWS, Google Cloud, Oracle Cloud

Database Management
- ✓ MySQL, MongoDB, PostgreSQL

Development Practices
- ✓ Agile, CI/CD, RESTful APIs, Version Control (Git)

Other
- ✓ Data Structures and Algorithms, Cloud Computing, Machine Learning, Deep Learning, Big Data Analytics

INTERNSHIPS

AI‑ML Virtual Internship   May 2023 – July 2023
AICTE Online
- ✓ Gained practical experience in applying machine learning algorithms to real‑world problems.
- ✓ Worked on predictive models using scikit‑learn and TensorFlow for data‑driven insights.
- ✓ Developed a small‑scale AI project involving data preprocessing, feature extraction, and model training.

AWS Cloud Virtual Internship   December 2022 – Febuary 2023
AICTE Online
- ✓ An AWS Cloud Virtual Internship is an online program designed to provide hands‑on experience with Amazon Web Services (AWS), one of the leading cloud computing platforms.
- ✓ Interns typically gain practical exposure to cloud technologies such as computing, storage, networking, and databases.

Network Security Associate Virtual Internship   September 2023 – November 2023
AICTE Online
- ✓ A Network Security Associate Virtual Internship is an online learning experience designed to provide practical exposure to the principles and practices of securing computer networks.
- ✓ Interns gain hands‑on knowledge about safeguarding digital assets, preventing cyber threats, and ensuring the integrity of data transmissions.

CERTIFICATIONS

- ✓ AWS Cloud Practitioner Essentials – Amazon Web Services
- ✓ Google TensorFlow Developer ‑ Google
- ✓ SalesForce AI‑Associate ‑ SalesForce
- ✓ Microsoft Certified: Azure Fundamentals – Microsoft
- ✓ Oracle Certified Associate – Oracle

LANGUAGES

- ✓ English: Fluent
- ✓ Telugu: Native
- ✓ Hindi: Proficient

PUBLICATIONS

Comprehensive Analysis of Bone Health Predictive Modeling: Integrating Logistic Regression for Precise Outcome Evaluation   Published in
IEEE
- ✓ *Leveraging Logistic Regression for Precise Prediction:* The research focuses on utilizing logistic regression to accurately predict bone health outcomes. This statistical technique is essential for classifying individuals into categories of risk or non‑risk, aiding in early intervention and preventive measures.
- ✓ *Comprehensive Analysis of Bone Health Factors:* The study involves a comprehensive analysis of various factors influencing bone health, including dietary intake, physical activity levels, genetic predispositions, and lifestyle habits. This

holistic approach enables a deeper understanding of the underlying mechanisms and risk factors associated with bone health conditions.

- ✓ *Integrating Data-Driven Insights for Effective Interventions:* The research aims to integrate the insights gained from the predictive model into effective interventions and personalized treatment plans. By identifying individuals at high risk, healthcare providers can tailor preventive strategies and therapeutic approaches to improve bone health outcomes.
- ✓ *Technologies*: Machine Learning, Design and Analysis of Algorithms, Data Visualization.