ARUTLA SAI KALYAN

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SUMMARY

A highly driven Computer Science undergraduate with a CGPA of 9.6 and hands-on experience in building Python-based AI applications, GenAI prototypes, and full-stack web systems. Proficient in Machine Learning, Deep Learning (CNNs), and Python libraries like NumPy, Pandas, Scikit-learn, and TensorFlow. Completed Google AI Virtual Internship with a strong focus on supervised/unsupervised learning, model optimization, and real-world implementation. Developed end-to-end projects in domains such as insurance prediction, plant disease detection using computer vision, and scalable backend systems. Passionate about delivering impactful solutions through AI, and eager to contribute to innovation-driven teams.

EDUCATION

KL UNIVERSITY   Hyderabad, Telangana

B.Tech in Computer Science Engineering   *CGPA: 9.6*

ALPHORES JUNIOR COLLEGE   Warangal, Telangana

Higher Secondary Education   *96%*

SAINT AGNES HIGH SCHOOL   Khammam, Telangana

Schooling   *CGPA: 10*

TECHNICAL SKILLS

Programming Languages : C, Java, Python, JavaScript, SQL

Web: HTML5, CSS3, JavaScript, Bootstrap, RESTful APIs

Core concepts : Operating System, Data Structures, OOPS, Machine Learning, Convolutional Neural Networks,   RESTful Api, Deep Learning, Object Detection, Microservices, Cloud Computing, Computer vision

Frameworks : React.js, Node.js, Spring Boot,Django

Database : MySQL, MongoDB

Tools : Git, Figma, Postman, AWS EC2, AWS AppSync, AWS CloudFront, JIRA, KANBAN, Flask, FastApi.

EXPERIENCE

GOOGLE AI – ML INTERNSHIP   July – September 2024

Certificate ID :7e632419c7086868280438b662428c7e   Duration: 10 Weeks

- Completed Google-AICTE virtual internship focused on Artificial Intelligence and Machine Learning, covering supervised and unsupervised learning, regression, classification, and clustering techniques.
- Gained hands-on experience using Python libraries such as **NumPy**, **Pandas**, **Matplotlib**, and **Scikit-learn** for data preprocessing, visualization, and model building.

PROJECTS

INSURANCE PREDICTION – MACHINE LEARNING

A Machine learning Model which predicts insurance premium using different Machine learning algorithms.

- Developed a predictive model using Linear Regression, Gradient Boosting, XGBoost, Decision Tree, and Random Forest.
- Conducted Exploratory Data Analysis (EDA) using Seaborn & Plotly, identifying key patterns.
- Improved model accuracy by best percentage through feature engineering and hyperparameter tuning.

POTATO DISEASE DETECTION - CONVOLUTION NEURAL NETWORK

This system uses a Convolutional Neural Network (CNN), a type of deep learning model that is effective for image classification task.

- Developed an automated system using Convolutional Neural Networks (CNN) to detect potato plant diseases from images, aiding in early disease detection and crop protection.
- The model is trained on labeled images of potato leaves, with CNN layers to extract features, followed by fully connected layers to classify diseases (e.g., Early Blight, Late Blight).
- Address class imbalance, image quality variations, and model generalization to ensure accurate disease detection across various conditions.
- Enables early disease identification, reducing crop losses, improving yield, and offering a scalable, cost-effective solution for farmers.

PORTFOLIO WEBSITE - REACT JS

A portfolio website showcasing skills, projects, and experience professionally.

- Developed a personal portfolio website using ReactJS to showcase projects, skills, and experience in an interactive and responsive manner.
- Structured the website into four key sections: About, Experience, Projects, and Contact, providing clear navigation and content accessibility.
- Designed the layout with Figma for a mobile-first, responsive design that adapts seamlessly to different screen sizes and devices.

JOB PORTAL – SPRING BOOT

A full-stack website that connects job seekers with employment opportunities and helps recruiters find talented candidates.

- Built a full-stack job portal using Spring Boot (Spring MVC, Spring Security, Spring Data JPA) and JDBC for backend and HTML, CSS, Bootstrap for frontend.
- Integrated MySQL to manage user profiles, job listings, and applications, ensuring secure transactions.
- Implemented JWT-based authentication, role-based access control, and secure user management.

MENTOR MANAGEMENT BACKEND – Flask

The Mentor Management Backend Service is a secure and scalable Flask application designed to enable seamless mentor-mentee interaction workflows.

- Developed RESTful APIs using **Flask** and **Flask-Restful** for managing mentor-mentee assignments and contact details.
- Integrated **MongoDB** with **PyMongo** for flexible and efficient NoSQL data storage.
- Implemented **JWT-based authentication** using Flask-JWT-Extended and **password hashing** via bcrypt for secure user access.
- Built endpoints to allow mentors to retrieve assigned mentee data, assign mentees, and manage records dynamically.

CERTIFICATIONS

MongoDB Associate developer

Redhat Enterprise Developer

RPA Advanced Automation Certification

SOFT SKILLS

- **Problem-Solving:** Optimized job portal API, reducing response time by lowest time.
- **Teamwork & Collaboration:** Worked with cross-functional teams in Google AI internship.
- **Leadership**: Led a team of all my college project teams.
- **Time Management:** Prioritizes tasks effectively to meet deadlines.
- **Remote Communication**: The ability to effectively communicate, collaborate, and coordinate with distributed teams or stakeholders using digital platforms.