

RAJA KALYANAPU

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Summary

Experienced Electrical and Computer Engineering graduate with a strong background in software development, data analysis, and machine learning. Passionate about solving complex problems and eager to contribute to innovative projects. Skilled in Python, Java, SQL, and various development tools and frameworks.

Education

UNIVERSITY OF ALABAMA AT BIRMINGHAM

BIRMINGHAM

Master of Science in Electrical and Computer Engineering, Expected Graduation: April 2024

Present

- **Selected Coursework:** Machine Learning, Cloud Computing, Neural Networks, Data Analysis, Data Visualization, Data Manipulation and Preprocessing

SRM INSTITUTE OF SCIENCE AND TECHNOLOGY

CHENNAI

Bachelor of Science in Electronics and Communication Engineering, Graduated: May 2022

- **Relevant Coursework:** Digital Logic and Circuits, Analog Electronics, Microprocessor & Microcontroller, VLSI Design, Wireless Communications, Computer Communication Networks, Radar and Navigational Aids, Pattern Recognition and Neural Networks

Experience

HIGHRADIUS

Hyderabad, India

Application Developer Intern

(June–July 21)

- I have worked on AI-Enabled FinTech B2B Invoice Management Application. Coordinated and worked with developers of Machine Learning and Web Development departments.
- Proficient in data analysis, statistical modeling, and predictive algorithms. Recognized as the top intern for delivering accurate results and meeting business requirements.

BSNL (Bharat Sanchar Nigam Limited)

Hyderabad, India

Intern

June–July 20

- Explored network services across different technologies and generations, including mobile networks' call routing processes and BSNL's customer-to-customer services.

SOLAR SECURE SOLUTIONS

Uttar Pradesh, India

Intern

May–July 21

- Gained a conceptual understanding of solar panel operation and electricity generation from sunlight. Designed and installed customized Solar PV data acquisition systems, including weather stations.

Personal Projects

AZURE CLOUD APPLICATION - CONSULTANTS FOR HIRE

March 2023

- Developed an Azure cloud application with Azure SQL Database and a Node.js/Express.js server. Implemented secure networking for data retrieval via API endpoints based on skill parameters.

PREDICTIVE MODELING - DATA CLASSIFICATION

November 2022

- Developed predictive models for data classification using Python and Jupyter Notebook with Scikit-Learn. Cleaned and prepared the 'adult-dataset.csv' file from the census bureau database, applying dimensionality reduction techniques such as SVD and PCA.

EMOTION DETECTION IN FACES

December 2022

- Built a deep neural network model to detect emotions in grayscale face images, achieving a minimum validation accuracy of 60%. Evaluated model performance with a test dataset, generating a Confusion Matrix and Classification Report for effectiveness assessment.

Technical Skills

Languages: SQL, Python

Developer Tools: Visual Studio, Sublime, Eclipse