Rishimithan Kannan

1/53K, Aiswarya Jothi Garden, Nachikuruchi, Tiruchirappalli, Tamil Nadu, India - 620102
Ph: +91 7010734901 Email: rishimithan@gmail.com

ACADEMIC QUALIFICATION

Bachelor of Technology in **Electronics and Communication Engineering**, Sastra Deemed to be University, Thanjavur, Tamil Nadu; aggregate/CGPA: 7.92/10; May'24

WORK EXPERIENCE

Graduate Engineering Trainee, **PSIOG Digital (P) Ltd, Chennai** ***Aug'24 – Feb'25***

A 10-year old software services company, PSIOG offers IT services and consulting to clients for building better customer experience and operational efficiency in their businesses and online operations

- Acquired expertise in frontend technologies such as HTML, CSS, JavaScript, and React.js for developing web apps
- Transitioned into C# API development for back- end services from software development and database design
- Worked in Cloud computing with hands-on experience in AWS/Azure, optimizing deployments and infrastructure management
- Developed a digital application to enhance law enforcement operations in the police department with a secure, scalable, and cloud-based architecture, deploying RESTful APIs using AWS, ensuring secure data exchange
- Implemented AWS SNS and SES for real-time notifications and alerts, integrating AWS Chime SDK to enable video conferencing, facilitating remote communication between officers
- Leveraged Microsoft Azure for building a cloud-based car vendoring application, implementing ML learning models using Azure AI to enhance vehicle recommendations and pricing insights
- Utilized Azure Database for secure, scalable data storage, designing and deploying RESTful APIs to ensuring efficient communication between services, integrating Power BI for real-time data visualization and analytics

ACADEMIC PROJECTS

Title: Antenna Impedance Matching Circuit using Shallow Learning Model
Duration: Feb - May'24
Team size: 3
Summary: This was a low-complexity shallow learning model for adaptive antenna impedance matching, implementing a data-driven approach to dynamically adjust impedance, reducing power loss, enhancing wireless communication performance, optimizing transmission efficiency, ensuring fast/efficient adaptation with minimal computational overhead
Individual role: Collected dataset from the designed antenna to build a shallow learning model for computing outcome

Title: File Processing Project using AWS
Duration: Dec'23 - Jan'24
Team size: 1
Summary: This AWS project leveraged API Gateway, S3 bucket, Lambda, DynamoDB, and SNS for automated file processing, storing the data in DynamoDB, and sending processing notifications via SNS for real-time file management
Individual role: Developed and optimized AWS architecture using API Gateway, S3, Lambda, DynamoDB, and SNS

Title: Inverse Estimation of Antenna Array Directivity using Adjoint Neural Network
Duration: Feb - May'23
Team size: 3
Summary: A multi-branch artificial neural network (ANN) model, this project facilitated inverse directivity estimation, mapping electromagnetic parameters to geometrical or physical parameters; addressing the non-uniqueness of the inverse problem, monotonicity was utilized by analyzing directional derivatives, while data was segmented to train parallel ANN branches, ensuring accurate output non reliant on the forward model
Individual role: Designed the necessary Neural Networks to compute the outcomes

Title: Chat Application using Socket Programming
Duration: Aug- Dec'22
Team size: 1
Summary: This was a real-time, multi-client chat application utilizing Python sockets that implemented multi-threading to manage concurrent connections, user authentication, and message, ensuring efficient and reliable handling of client connections, facilitating seamless client-server communication
Individual role: Utilized Python sockets that enabled multi-threading facilitating simultaneous users to log on

TECHNICAL SKILLS

- **Languages**: Python, C++, C#, JavaScript
- **Database:** MySQL
- **Cloud Computing:** AWS, Microsoft Azure
- **Data Science & AI:** Machine Learning, Neural Networks
- **Frontend Development:** HTML, CSS, React.js
- **Visualization Tools:** Power BI, IBM Cognos Analytics

CERTIFICATIONS

- Completed a eight-week course on Machine Learning by Andrew Ng on Coursera in '22
- Undertook a four-week long course on Data Visualization and Dashboard with Excel and Cognos Analytics on Coursera in '22
- Participated in a course on Python for Data Science, AI, and Development of 25 hours duration on Coursera platform in '22