

Permission Letter

From

Mr. SIVASANKAR RAJAMANI. P
Associate Professor,
Department of ECE,
K.S.R. College of Engineering,
Tiruchengode - 637 215

To

The Principal,
K.S.R. College of Engineering,
Tiruchengode – 637 215

Respected Sir,

Sub: Webinar on “**Artificial Intelligence**” - Permission requested - Reg.

The ECE department has planned to conduct a Free Webinar on “**Artificial Intelligence**” sponsored by Institute innovation council on **17.03.2022 at 02.30 PM**. We request you to grant permission to conduct the Webinar.

Thanking You

Resource Person:

Ms C Nandhini
Cloud Security Research Engineer,
Palo Alto Networks,
Bangalore.

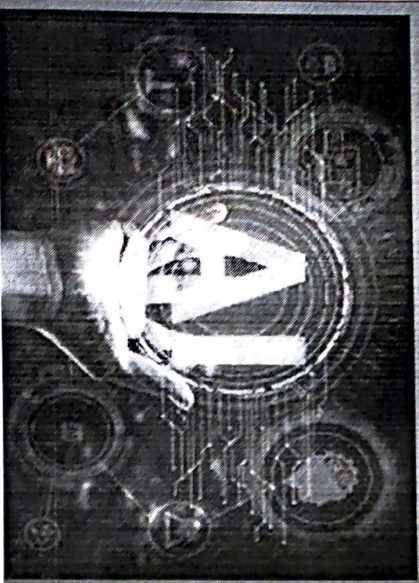
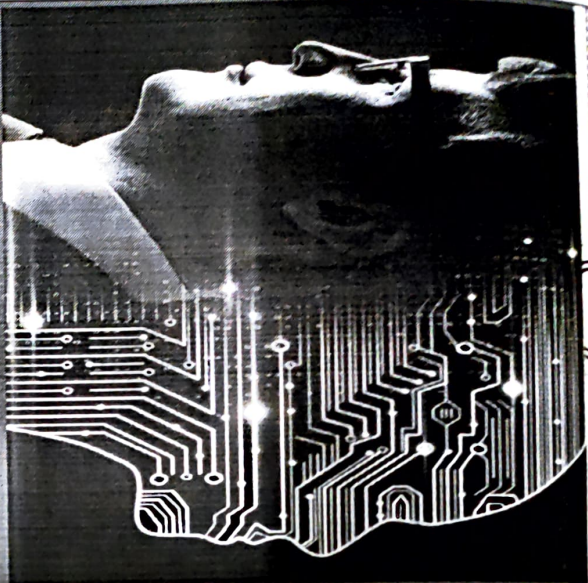
Place: Tiruchengode

Date: 16.03.2022

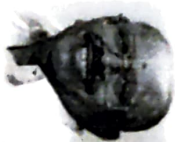


Yours sincerely
Sivasankar Rajamani





**KSR COLLEGE OF
ENGINEERING**



**Lion. Dr. K.S. Rangasamy, M.J.F.,
Founder – Chairman, KSREI**



**INSTITUTION'S
INNOVATION
COUNCIL**
(Ministry of HRD Initiative)



**Mr. R. Srinivasan B. B.M.,
Vice-Chairman, KSREI**

K.S.R. College of Engineering (Autonomous) **Tiruchengode – 637 215** **DEPARTMENT OF ECE** **– Artificial Intelligence**

Online Mode

Date : 17.03.2022 (Thursday)
Time : 02.30 P.M.



Ms C Nandhini
Cloud Security Research
Engineer,
Palo Alto Networks,
Bangalore



<https://meet.google.com/voz-xfmx-maa>

www.ksrce.ac.in



Nandhini C

Cloud Developer

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Competent Cloud Developer having around 5 years of experience in designing AWS solutions and platforms, automating workflows using Python, building and deploying infrastructure as a code using pipelines.

Skills

- Cloud Provider - **AWS**
- Scripting Languages - **Python, Shell**
- Automation Testing Languages - **Go (Testing Package)**
- Automation Tools - **AWS Lambda, AWS Step Functions, AWS Service Catalog**
- Infra as Code Tools - **Terraform, AWS CloudFormation**
- Version Control Tools - **Git**
- Configuration Management Tools - **AWS Systems Manager**
- Containerization Tools - **Docker (Basics)**
- CICD Tools - **GitHub Actions, Azure DevOps**

Work Experience

Senior Project Engineer - Wipro, Bengaluru (June 29th, 2016- Present)

Inner Source AWS Accelerator Project - Current

Inner-source accelerator project enables application teams to source reusable Terraform modules which in turn reduces the cost, time & efforts by avoiding the recreation of similar infrastructure across the organization.

- Designed Inner Source workflow with maintainers, contributors & consumers.
- Developed Terraform code to create & maintain repositories under GitHub organization.
- Developed reusable **AWS Terraform Modules** in GitHub organization repositories.
- Developed **GitHub Actions Workflow** to perform automated testing using **Go & Terratest**.
- Published GitHub Actions written in Python using Docker for automatic documentation of Terraform.

AWS Platform Development

Centralized AWS Platform that requires a single user request to **automatically provision** AWS Accounts with add-on features and **saves thousands of dollars** for the organization by sharing resources.

- Developed **AWS Service Catalog** product that acts as a UI to collect the data and **AWS Lambda & AWS Step Functions** as a backend to create AWS accounts using **Control Tower**.
- Developed add-on features like VPC Provisioning, Shared Endpoints Provisioning, Just in Time access using **Python & other AWS Services**.
- Developed the entire platform in **AWS CloudFormation** and deployed using **Azure DevOps**.

AWS SOAR Development

Centralized AWS Security Orchestration and Automated Response design to automatically monitor & remediate security vulnerabilities in AWS accounts and by enabling Logging capabilities for Security Team

- Designed centralized Audit Account using AWS Services such as **Security Hub, Config, Guard Duty, IAM Access Analyzer with Config Rules & Config Aggregator**.
- Developed automatic remediation for CIS Benchmarks using **Python** to automatically remediate the vulnerability or to notify the threat to customers.
- Developed centralized logging to Splunk Phantom using add-on under Security Hub Integrations.

AWS Infrastructure Designing

Designed and deployed secure infrastructure solutions for transactions between third-party and on-premise networks.

- Designed Transit VPC solution using **AWS VPN, Direct Connect** services where a VPC will act as a transit medium for communication between two different networks through a firewall.
- Performed Proof of Concept design using **AWS Transit Gateway** service connecting all AWS accounts in an organization and securing & monitoring the connectivity through Palo Alto firewalls.

Intern - Wipro, Bengaluru (Feb 8th, 2016 - April 22nd, 2016)

- Designed a Security model using different layers of security such as Network Security, Data Security, Endpoint Security using Firewalls, Anti-Virus, Data Protection tools.
- Completed Intern PRP with the highest score among a team of 100+ interns.

Certification

- Successfully cleared **AWS Certified Solutions Architect Associate Exam**.
- Scheduled **AWS Certified Developer Associate Practice Exam**.

Education

- Completed Bachelor of Engineering in ECE with **8.72 CGPA** at KSR College of Engineering under Anna University Board in *June 2016*.
- Obtained Higher Secondary Certificate with **92.25%** at SRV Girls HSS in *May 2012*.
- Obtained Secondary School Leaving Certificate with **94.5 %** at EHKN HSS in *May 2010*.

Awards & Recognition

- **ENU Excellence Award** for designing and deploying the Organization Inner Source Project.
- **Valued Team Player Award** for designing and developing Automated AWS Platform.
- **Cybersecurity Star Award** for developing AWS Security Orchestration & Automated Response solution.
- **Client Recognition Award** for designing Transit VPC solution & automating Palo Alto Firewall tasks.
- **Intern Topper Award** for deploying the best Infrastructure Security project.

PO3 - Design/development of solutions:

This webinar helps to write different learning models used in Artificial Intelligence like fuzzy logic, Neural networks, decision tree and hybrid models for various applications

PO11-Project Management and finance:

This webinar motivated many of the students to do project on Artificial Intelligence as they are computing systems inspired by the biological neural networks that constitute animal brains.

PO12-Life-long Learning:

This webinar provides information on Artificial Neural Network provides basic to advanced concepts of ANNs. Our Artificial Neural Network tutorial is developed for beginners as well as professions, hence helps life-long learning.

PPT OF THE PROGRAM



Meeting ID: 919 555 5555

Nandini C is presenting

Topics of this lecture

- A brief review of AI history
- What is artificial intelligence?
- Related research fields
- Scope of this course

3:39 PM | voz-xfms-maa

Participants: Nandini C, G10 GOWTHAM R, VIGNESH V, DINESH S, G13 MOHANS, G14 KIRANRAJ T, 46 others, You.

People: [List of participants]

Meeting ID: 919 555 5555

Nandini C is presenting

A brief summary

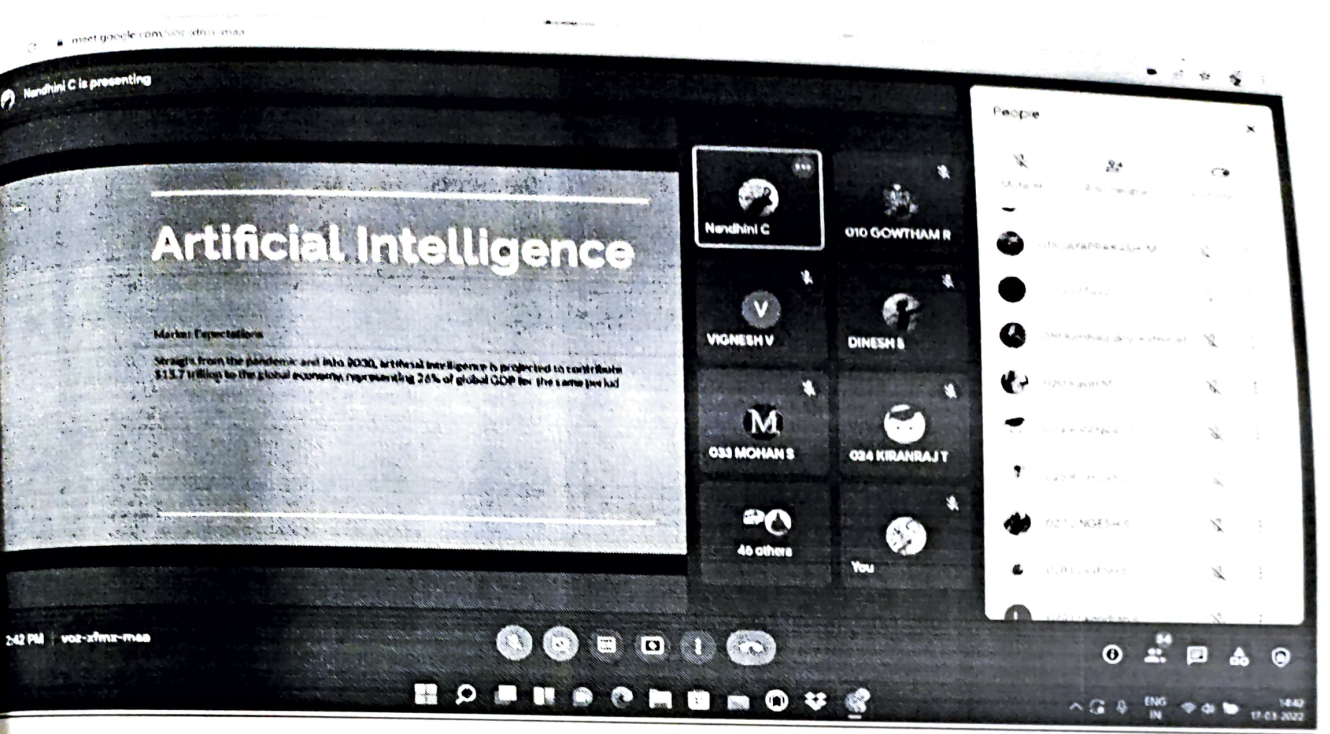
- Early work
 - Theoretic foundations
- 1st wave:
 - Reasoning with given knowledge
- 2nd wave
 - Acquire knowledge from data / experiences
- 3rd wave
 - Learn in the cyber-space

The same as learning inside the brain. Each brain has a 'natural intelligence' that can learn using the sensor data captured by different parts of the body.

2:41 PM | voz-xfms-maa

Participants: Nandini C, G10 GOWTHAM R, VIGNESH V, DINESH S, G13 MOHANS, G14 KIRANRAJ T, 46 others, You.

People: [List of participants]



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[Dr. P.S.PERIASAMY]

K.S.R COLLEGE OF ENGINEERING (Autonomous), TIRUCHENGODE-637215
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
FREE WEBINAR ON "Artificial Intelligence"

18.03.2022

WEBINAR REPORT

Department of Electronics and Communication Engineering, K.S.R College of Engineering (Autonomous), Tiruchengode Organized a Webinar on "Artificial Intelligence" in association with Institute innovation council on **17.03.2022 at 2.30 PM** through Google meet link:<https://meet.google.com/voz-xfm-x-maa>

The Webinar began with welcome address by **Dr.P.S.Periasamy** the Head of the Department, ECE. He introduced the resource person **Ms. C.Nandhini** Cloud Security Research Engineer, Palo Alto networks; to deliver the lecture and welcomed all the participants.

Impact Analysis on Webinar

- The webinar was very useful to the Faculty members and students to learn about the fundamentals Artificial Intelligence. It was very useful for gaining knowledge regarding Artificial Intelligence and customizes the page as required for the client or customer. The lecture was even more interesting with the web designing with live programming and demonstrations.
- This webinar helped the Faculty members and students to improve their knowledge on the field of Artificial Intelligence of web development and the students may have the opportunity to participate in more workshops.
- The webinar has also motivated the students to do more projects using Java Programming. **65 participants** were attended the webinar successfully.

Impacts on Programme Outcomes:

PO1-Engineering Knowledge:

This webinar provides basic engineering knowledge on Artificial Intelligence. An Artificial neural network is usually a computational network based on biological neural networks that construct the structure of the human brain