



DEPARTMENT OF CSE (DATA SCIENCE)

Event: "Cloud-Based Website Hosting and API Integration Using AWS"

Venue: Room C203

Time-10:00 AM-12:00PM

The banner features logos for New Horizon College of Engineering (25th Anniversary), Computer Society of India, IEEE NHCE Student Branch, and IEEE Biometrics Council. The title 'Workshop' is in a green box, followed by the main title 'Cloud-Based Website Hosting and API Integration Using AWS' in large green letters. Event details include: 13th May 2026, 10:00 AM to 01:00 PM, Room C 203, and 4th Semester Students. A circular portrait of Mr. Sasideep Jagarlamudi is shown, with his name and title 'Senior Automotive Cybersecurity and Test Automation Engineer, Vector Informatik India' listed below.

Faculty Coordinator
Ms. Aswathy J S
Assistant Professor

Convenor
Dr. B Swathi
HoD - CSE(DS)

Dr. R J Anandhi
Dean - Academics

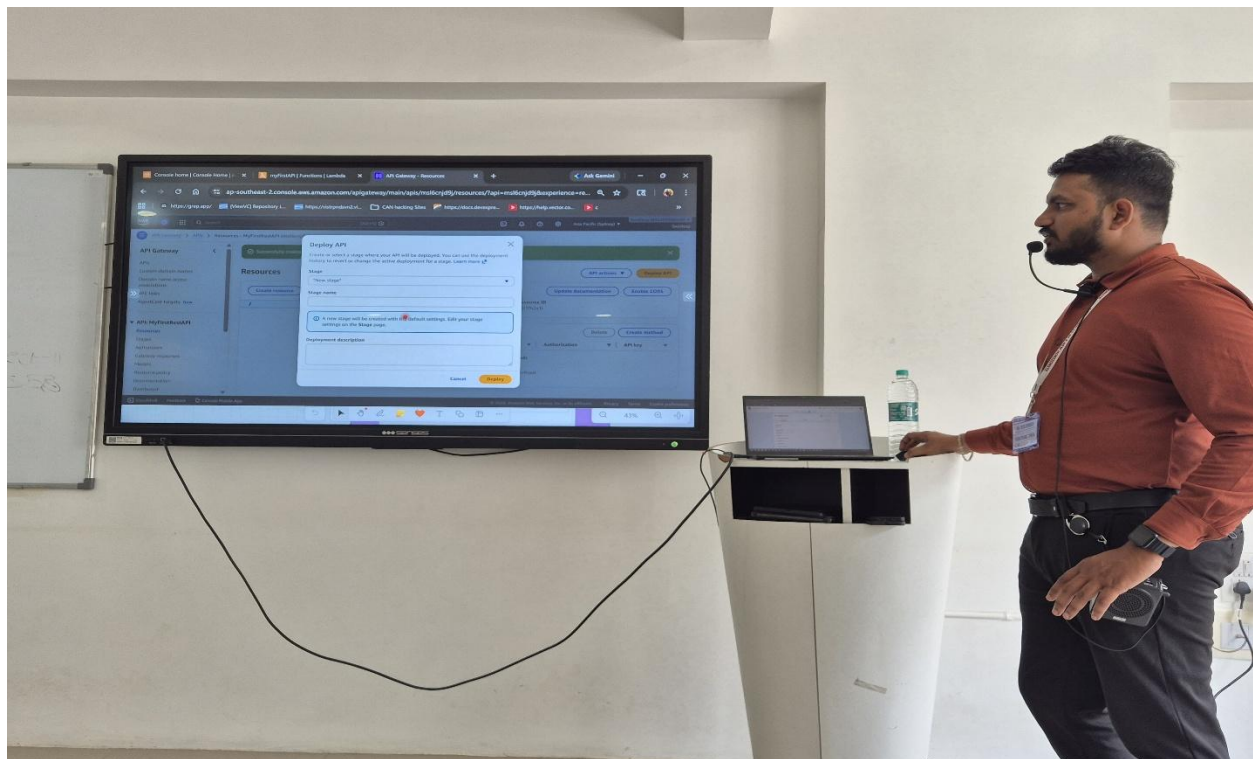
Dr. Manjunatha
Principal - NHCE

Organised by
Institution's Innovation Council
Department of Computer Science and Engineering (Data Science)

The Department of Computer Science and Engineering (Data Science), New Horizon College of Engineering, organised a workshop titled “Cloud-Based Website Hosting and API Integration Using AWS” on 14th May 2026 for 4th semester students. Mr Sasideep Jagarlamudi, Senior Automotive Cybersecurity and Test Automation Engineer at Vector Informatik India conducted the session.

The workshop session on Cloud-Based Website Hosting and API Integration Using AWS provided valuable insights into how cloud technologies are used to host modern web applications and integrate services efficiently in real-world IT environments. The session began with an overview of cloud computing and AWS services, explaining how organisations use scalable cloud infrastructure to deploy websites, manage databases, and ensure secure and reliable access to applications over the internet.

The workshop also introduced key AWS services such as Amazon EC2, S3, Route 53, and API Gateway, highlighting their roles in website hosting and backend communication.







The session covered the core aspects of Cloud-Based Website Hosting and API Integration Using AWS, focusing on scalable infrastructure, cloud deployment, secure communication, and efficient service integration—enabling organisations to host and manage modern web applications reliably on the cloud rather than relying on traditional on-premise systems. The speaker highlighted how AWS cloud services are now being widely used to improve flexibility, availability, performance, and cost efficiency in web application deployment and management. A major focus of the talk was on the scope of how AWS-based cloud hosting and API integration find applications across e-commerce platforms, enterprise websites, mobile applications, cloud storage systems, fintech services, and business automation solutions, where cloud infrastructure ensures scalability, secure data exchange, resource optimisation, and uninterrupted service delivery.

In practice, AWS services act as a reliable cloud ecosystem—supporting website hosting, backend processing, database management, and seamless API communication between different applications—ultimately driving efficiency, accessibility, and innovation across digital business environments.

The benefits of adopting cloud-based hosting and API integration using AWS were presented comprehensively. Integration of AWS services leads to increased scalability and performance by allowing organisations to dynamically allocate resources based on demand, while also reducing infrastructure and maintenance costs through pay-as-you-go cloud models. It enables faster deployment and improved service reliability by offering highly available cloud infrastructure, automated backups, load balancing, and monitoring services.

Moreover, API integration strengthens application connectivity by enabling secure and efficient communication between frontend applications, backend servers, databases, and third-party services, ensuring organisations can deliver responsive and intelligent digital solutions.

However, the session also acknowledged the challenges and considerations involved in implementing AWS-based cloud hosting and API integration. These include the high initial learning curve, cloud security concerns, cost management complexities, dependency on internet connectivity, configuration challenges, and integration issues with legacy systems. The speaker stressed that addressing these challenges is crucial for ensuring secure, efficient, and cost-effective cloud adoption in modern IT infrastructures.

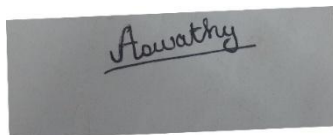
The workshop provided participants with a comprehensive understanding of AWS cloud concepts, including website hosting, server deployment, domain management, database connectivity, and API integration, while also showcasing real-world business applications across enterprise systems, e-commerce, cloud computing, and digital services. Such sessions help bridge the gap between theoretical knowledge and practical implementation, inspiring learners to understand cloud computing not merely as a technology but as a transformative approach for building scalable and connected digital systems.

The practical exposure enhanced participants' understanding of cloud infrastructure and strengthened their technical skills in web hosting, cloud management, and API communication. The session provided valuable industry-oriented experience by allowing learners to work directly with AWS tools and services, thereby improving their confidence in implementing real-world cloud-based solutions.

The workshop fostered career awareness and technical skill development by highlighting emerging opportunities in cloud computing, web hosting, DevOps, API development, and AWS cloud management. It encouraged participants to develop practical knowledge in deploying and managing cloud-based applications, integrating APIs, and working with modern cloud infrastructure technologies.

Through both theoretical discussions and hands-on activities, the workshop promoted continuous learning, problem-solving abilities, and adaptability to rapidly evolving cloud technologies.

Overall, the workshop on Cloud-Based Website Hosting and API Integration Using AWS enabled students and professionals to gain industry-relevant skills and align themselves with the growing demand for scalable cloud solutions, digital transformation, and modern web application development.



Faculty Coordinator
Assistant Prof.
Prof. Aswathy J S



Convener
HOD-CSE-DS
Dr. B Swathi