NITTE EDUCATION TRUST | NITTE MEENAKSHI INSTITUTE OF TECHNOLOGY

AN AUTONOMOUS INSTITUTION AFFILIATED TO VTU, BELGAUM, ACCREDITED by NAAC ('A+' Grade)

YELAHANKA, BANGALORE-560064

# A Internship Report on
# Azure Cloud Services

**BACHELOR OF ENGINEERING**

**IN**

**INFORMATION SCIENCE AND ENGINEERING**

**By**

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Accetion Technologies

Global Artificial Intelligence (AI) Solution

https://www.accetion.com/

Bangalore , Karnataka

**DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING**

(Accredited by NBA Tier-1)

2023-24

**NITTE MEENAKSHI INSTITUTE OF TECHNOLOGY**

(AN AUTONOMOUS INSTITUTION, AFFILIATED TO VTU, BELGAUM)

**DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING**

**Accredited by NBA Tier-1**

# CERTIFICATE

Certified that the project work entitled "**Azure Cloud Services**" was carried out by Mr. **K Govind Raj**, USN **1NT20IS069**, a bonafide student of **Nitte Meenakshi institute of technology** in partial fulfillment for the award of Bachelor of Engineering in **Information Science and Engineering** during $4^{th}$ year under Visvesraya Technological University, Belgaum during the year **2023 - 24**. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report.

Signature of HOD

**External Viva**

Name of the internal and external examiners Signature with date

1. Mrs. Vani K S
2. Mr. Mohan T G

# ABSTRACT

I thoroughly explored the dynamic world of AI technologies and cloud principles during my two-month internship at Accetion Technologies, concentrating on Azure, a potent DevOps tool. Through the event, I was able to investigate a wide range of DevOps technologies and obtain insightful knowledge about their uses and capabilities. By exploring the complexities of cloud computing, I gained a thorough understanding of the implementation of dynamic websites—a skill set that is becoming more and more important in today's tech-driven environment. I worked closely with Azure during the internship, developing my understanding of its many uses and features inside the DevOps framework. I gained practical understanding about implementing state-of-the-art solutions and optimizing development processes through this hands-on experience.My experience gave me a comprehensive understanding of the industry by covering both the theoretical and practical uses of AI technologies. I will go into depth about the particular tools I used, the difficulties I overcame, and the results of my contributions in my internship report. My knowledge of AI technologies, cloud principles, and DevOps procedures has greatly increased as a result of my internship, providing a strong basis for my future aspirations in the rapidly developing sector of technology.

# ACKNOWLEDGMENT

I would like to express my sincere gratitude to Accetion Technologies for providing me with the invaluable opportunity to embark on a two-month internship journey. This experience has been instrumental in shaping my understanding and expertise in cutting-edge technologies, particularly in the fields of Artificial Intelligence (AI) and Cloud Computing. First and foremost, I extend my deepest appreciation to the entire team at Accetion Technologies for their unwavering support and guidance throughout my internship. The collaborative and inclusive work environment fostered at the organization played a pivotal role in enhancing my learning experience. Special thanks to my mentors and colleagues who generously shared their knowledge and insights, making my internship not only educational but also enriching on a personal level. During my time at Accetion Technologies, I had the privilege of delving into the realm of AI technologies, gaining hands-on experience that has significantly broadened my skill set. The exposure to Cloud fundamentals, with a particular focus on Microsoft Azure as a DevOps tool, has been an enlightening journey. The opportunity to explore various DevOps tools has given me a holistic understanding of the development and operations lifecycle. I am grateful for the trust and responsibility bestowed upon me, particularly in the area of deploying dynamic websites on the cloud. This practical experience has been invaluable, allowing me to apply theoretical knowledge to real-world scenarios and further honing my skills. I would also like to extend my gratitude to the entire Accetion Technologies community for fostering a culture of continuous learning and innovation. This internship has not only enhanced my technical competencies but has also instilled in me a sense of curiosity and adaptability crucial in the ever-evolving tech landscape. In conclusion, I am sincerely thankful to Accetion Technologies for providing me with a platform to learn, grow, and contribute to meaningful projects. This internship has been a transformative experience, and the lessons learned will undoubtedly serve as a strong foundation for my future endeavors in the field of AI, Cloud Computing, and DevOps.

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# Chapter 1

# Introduction

My two-month internship with Accetion Technologies has been a life-changing experience that has allowed me to gain a deeper understanding of the rapidly evolving fields of artificial intelligence (AI) technologies, cloud basics, and the flexible Azure platform—a key component of the DevOps ecosystem. I have gained a wide range of experiences from this internship, including an in-depth understanding of the complex interactions that exist between cutting-edge technologies and their practical applications. My internship started in the field of artificial intelligence (AI), where I learned about the complex systems that underlie computer vision, natural language processing, and machine learning. With practical projects and mentor-guided instruction, I developed a thorough understanding of the frameworks and algorithms that underpin AI applications. This experience was really immersive, which improved my technical abilities but also gave me a deeper understanding of how AI might revolutionize businesses and solve difficult challenges. My internship experience also encompassed cloud computing, which is a fundamental component of contemporary IT infrastructure, in addition to AI. My grasp of cloud foundations solidified as I made my way through the intricacies of resource management, scalability, and virtualization. The main focus of our investigation was Microsoft Azure, a well-known cloud platform that is closely associated with efficiency and creativity in the DevOps field. My internship was centered around the dynamic nature of DevOps, with its emphasis on automation, collaboration, and continuous integration/continuous deployment (CI/CD). I was able to investigate a wide range of DevOps technologies and become proficient in both their orchestration and deployment. As a DevOps platform, Azure has become indispensable for optimizing development workflows, facilitating effective teamwork, and cultivating an ongoing enhancement mindset. My internship's greatest accomplishment was getting hands-on experience with the Azure platform and developing a dynamic website. This real-world application of knowledge demonstrated the scalability and dependability that Azure offers, underscoring the importance of cloud-based solutions in today's digital environment. I will go into depth about the many aspects of my internship experience in this report, including the knowledge and abilities I picked up, the difficulties I overcame, and the insightful realizations I had. Along with giving me technical know-how, this adventure has helped me develop an innovative, collaborative, and adaptable mindset—qualities that are crucial in the ever changing field of technology. [1] [2]

# Chapter 2

# Problem solved and Objectives of the internship work

The internship at Accetion Technologies was structured to address a series of real-world problems using Artificial Intelligence ,Cloud Fundamentals and AZURE DevOps, with each week dedicated to a distinct challenge:

### Problem 1: Integration Challenges

Issue: Integrating AI technologies with Azure and other devops tools can be complex, leading to compatibility issues and slowed deployment.

### Solution:

Establish clear integration protocols, conduct thorough compatibility tests, and leverage platform-specific APIs for seamless communication between AI and devops components.

### Problem 2: Security Concerns in Cloud Deployment

Issue: Cloud-based deployment raises security apprehensions. Data breaches or unauthorized access could compromise sensitive information.

### Solution:

Implement robust security measures, including encryption, access controls, and regular security audits, to safeguard data and ensure compliance with industry standards.

### Problem 3: Scalability Challenges

Issue: Deploying dynamic websites on Azure may face scalability challenges, impacting performance during peak usage.

### Solution:

Utilize Azure's auto-scaling features, optimize code for efficiency, and regularly monitor and adjust resources based on traffic patterns to ensure optimal performance.

### Problem 4: Learning Curve for DevOps Tools

Issue: Navigating and mastering various devops tools can pose a steep learning curve for team members.

### Solution:

Provide comprehensive training programs, documentation, and mentorship to empower the team in acquiring necessary skills, accelerating the adaptation process.

### Problem 5: Cost Management in Cloud Services

Issue: Cloud usage costs can escalate unexpectedly, impacting project budgets.

### Solution:

Implement cost monitoring tools, set budget alerts, optimize resource utilization, and periodically review and adjust the cloud infrastructure to align with project requirements and financial constraints.

## 2.1 What the Report Aims to Convey

This report is designed to provide an in-depth narrative of my two months-long journey through the dynamic and challenging world of AI, Cloud Fundamentals and Azure Devops technologies during my internship at Accetion Technologies. Its primary aim is to encapsulate the rich learning experience, the diverse array of tasks undertaken, and the valuable insights gained. Key aspects report focuses on include:

1. **Insights and Learning Outcomes**: Each task offered unique learning opportunities, and the report aims to share these insights.
2. **Personal and Professional Growth**: The report reflects on my personal growth throughout the internship. It discusses the development of technical skills, such as coding proficiency and data analysis, as well as soft skills like time management, adaptability, and effective communication. This section aims to showcase the holistic development achieved through this experience.
3. **Future Implications and Reflections**:It reflects on how this experience has shaped my understanding of the field of AI,Azure,Cloud and its potential impact on future academic and professional pursuits.
4. **Integration of Theory and Practice**: A key element the report aims to convey is the integration of academic theories with practical application. This underscores the importance of real-world application in different learnt technologies.

The report serves as a testament to the dynamic and multifaceted nature of AI,Cloud and Azure Devops technologies and its potential to drive innovation across various sectors. It reflects the critical role of AI,Cloud and Azure Devops in the current technological landscape and my evolution as an aspiring Azure Cloud practitioner.

# Chapter 3

# Daily Activities/Log

### 3.0.1 Week 1-2: Introduction and Setting Up Environment

- **Day 1-2 (Monday-Tuesday):**
  Introduction to the company and the team. Overview of the internship goals and objectives. Set up your development environment.
- **Day 3-4 (Wednesday-Thursday):**
  Dive into basic networking concepts (CIDR). Begin hands-on exercises to solidify understanding.
- **Day 5(Friday):**
  Continue with networking concepts. Start researching AI technologies.

### 3.0.2 Week 3-4: AI Technologies and DevOps Introduction

- **Day 1-2 (Monday-Tuesday):**
  Deepen understanding of AI technologies. Explore basic concepts of DevOps.
- **Day 3-4 (Wednesday-Thursday):**
  Research and understand Cloud fundamentals. Start hands-on labs with basic cloud services.
- **Day 5(Friday):**
  Dive deeper into Cloud services. Begin exploring Azure as a DevOps tool.

### 3.0.3 Week 5-6: DevOps Tools and Azure Exploration

- **Day 1-2 (Monday-Tuesday):**
  Explore various DevOps tools (e.g., Jenkins, Git, Docker). Begin hands-on experience with selected tools.
- **Day 3-4 (Wednesday-Thursday):**
  Continue with DevOps tool exploration. Start learning Azure DevOps features.
- **Day 5(Friday):**
  Dive deeper into Azure DevOps. Practice integrating different tools for a cohesive workflow.

### 3.0.4 Week 7: Project Development and Cloud Deployment

- **Day 1-2 (Monday-Tuesday):**
  Start planning your project. Define the architecture and components.
- **Day 3-4 (Wednesday-Thursday):**
  Begin developing the dynamic website. Integrate AI technologies if applicable.
- **Day 5(Friday):**
  Continue project development. Experiment with cloud deployment options in Azure.

### 3.0.5 Week 8: Finalizing Project and Reporting

- **Day 1-2 (Monday-Tuesday):**

  Finalize project development. Conduct testing and debugging.

- **Day 3 (Wednesday):**

  Prepare detailed reports on tasks completed throughout the internship.

- **Day 4-5(Thursday-Friday):**

  Finalize the internship report. Reflect on the overall experience and document key takeaways. Review the entire internship journey. Prepare a presentation summarizing the project and key learnings.

During my two months-long internship at Accetion Technologies, each week was dedicated to a distinct learning and project, marked by a series of progressive daily activities.

# Chapter 4

# Detailed Description of the Work Area

## 4.1 Tasks Undertaken

- During my internship at Accetion, a Bangalore-based startup, I had the opportunity to work in the dynamic and rapidly evolving field of cloud computing, with a specific focus on Microsoft Azure.
- Accetion is a key player in the cloud services industry, specializing in delivering a comprehensive suite of services related to Microsoft Azure to a diverse clientele.
- The company's client portfolio boasts industry giants such as Nvidia, Microsoft, and Google, underscoring its prominence in the market.
- My primary responsibility during the internship was to contribute to the deployment and management of cloud solutions using Microsoft Azure.
- This encompassed a wide array of tasks, including but not limited to hosting websites, configuring virtual machines, implementing storage solutions, and optimizing network configurations.
- Accetion's commitment to excellence was evident in its strategic collaboration with industry leaders, and my role directly contributed to meeting the high standards set by clients of such caliber.

## 4.2 Tools and Technologies Used

- Working closely with Microsoft Azure, I gained practical experience in deploying and maintaining cloud infrastructure for various purposes.
- This involved harnessing the power of Azure's compute services, storage solutions, and networking capabilities to meet the specific needs of clients.
- Moreover, the internship provided a valuable opportunity to deepen my understanding of Azure's ecosystem, exploring services such as AI and machine learning, databases, and IoT.
- One noteworthy aspect of my internship at Accetion was the exposure to DevOps practices, with the utilization of Azure DevOps for source control, build automation, and release management. This holistic approach to development and deployment underscored the company's commitment to efficient and streamlined processes.

## 4.3 Contribution to the Organization

- Accetion's emphasis on continuous learning was evident through the training provided, specifically tailored to equip interns with the skills required to excel in working with Microsoft Azure.
- The hands-on experience and guidance received during the internship not only enhanced my technical proficiency but also provided insights into best practices in the industry.

## 4.4 Highlights

- In conclusion, my internship at Accetion provided a comprehensive and immersive experience in the realm of Microsoft Azure and cloud services.
- It equipped me with practical skills, exposed me to industry-leading practices, and allowed me to contribute meaningfully to the company's mission of delivering top-notch cloud solutions to its prestigious clientele.
- The knowledge and experience gained during this internship are invaluable assets that will undoubtedly shape my future endeavors in the field of cloud computing.

# Chapter 5

# Skills and Knowledge Gained

## 5.1 Technical Skills Developed:

- **Networking Concepts (CIDR):** Understanding and applying CIDR for efficient IP address management.
- **AI Technologies:** Knowledge of basic AI concepts and applications, potentially including machine learning algorithms and models.
- **Cloud Fundamentals:** Hands-on experience with cloud services, including deployment, scaling, and management.
- **DevOps Tools:** Proficiency in various DevOps tools such as Jenkins, Git, Docker, and Azure DevOps.
- **Project Development and Deployment:** Experience in developing a dynamic website and deploying it on Azure cloud, showcasing end-to-end project lifecycle.

## 5.2 Time Management:

- **Task Prioritization:** Prioritizing tasks based on importance and deadlines.
- **Project Planning:** Efficiently planning and allocating time for project development stages.
- **Deadline Adherence:** Meeting project milestones and completion deadlines.
- **Multitasking:** Juggling between different aspects of the project and learning multiple technologies simultaneously.
- **Time Tracking:** Monitoring and managing time spent on different tasks for productivity.

## 5.3 Understanding of Industry Norms:

- **Networking Standards:** Awareness of industry standards and best practices in networking.
- **Cloud Industry Practices:** Understanding how cloud services are typically utilized in industry scenarios.
- **DevOps Methodologies:** Grasping common DevOps methodologies and practices used in real-world projects.
- **AI in Industry:** Understanding how AI technologies are applied in various industries.

## 5.4 Work Culture:

- **Team Collaboration:** Working effectively in a team-oriented environment.
- **Communication Skills:** Enhancing communication with team members and superiors.
- **Adaptability:** Adapting to the work culture and quickly learning new tools and technologies.
- **Problem-solving in Teams:** Collaborative problem-solving within the team.

## 5.5 Soft Skills:

- **Leadership:** Taking initiative and leading small aspects of the project.
- **Self-Motivation:** Demonstrating a proactive approach to learning and problem-solving.
- **Critical Thinking:** Applying analytical skills to solve complex problems.
- **Flexibility:** Adapting to changing project requirements and learning new skills as needed.
- **Professionalism:** Maintaining a professional attitude in a corporate setting, including meeting deadlines and respecting team dynamics.

## 5.6 Overall

- In summary, my internship at Accetion was a transformative experience that enriched my skills in Microsoft Azure cloud services.
- The practical exposure to real-world projects with top clients and the focused training on website hosting and other Azure services have collectively contributed to my well-rounded understanding of cloud computing and positioned me as a capable professional in the field.

# Chapter 6

# Methodology

1. **Introduction to Internship Tasks:** Provide a brief overview of the scope and objectives of your internship at Accetion Technologies. Highlight the main focus areas, including basic networking concepts, AI technologies, cloud fundamentals, and the use of Azure as a DevOps tool.

2. **Learning and Skill Development:** Describe how you approached the learning process during the internship. Discuss the methods you used to familiarize yourself with basic networking concepts like CIDR, AI technologies, and cloud fundamentals. Mention any training sessions, workshops, or online resources you utilized to enhance your knowledge.

3. **Exploration of DevOps Tools:** List and briefly explain the various DevOps tools you explored during your internship. Highlight specific tools that were relevant to your tasks and elaborate on their functionalities. Discuss any challenges faced while working with these tools and how you overcame them.

4. **Cloud Knowledge Acquisition:** Detail your journey in gaining knowledge about cloud computing, with a focus on Azure. Explain how you familiarized yourself with Azure as a DevOps tool. Discuss any certifications or training programs you completed related to Azure.

5. **Dynamic Website Deployment:** Provide a step-by-step account of deploying a dynamic website on Azure. Mention the technologies and programming languages used for the website. Include details on configuring, testing, and troubleshooting the deployment process.

6. **Hosting on Azure Cloud:** Elaborate on the steps involved in hosting the dynamic website on Azure. Discuss the features and services of Azure utilized for hosting. Include information on scalability, security measures, and any optimizations implemented.

7. **Collaboration and Teamwork:** Describe how you collaborated with team members and other stakeholders during your internship. Highlight any teamwork, communication tools, or methodologies employed for efficient collaboration.

8. **Documentation and Reporting:** Discuss the documentation practices followed during the internship. Mention any reporting tools or templates used for tracking progress and sharing updates with the team.

9. **Feedback and Continuous Improvement:** Share any feedback received from mentors or supervisors. Reflect on the areas where you saw improvement and growth over the course of the internship. Discuss any adjustments made to your approach based on feedback.

10. **Conclusion of Methodology:** Summarize the key methodologies employed during your internship. Emphasize the relevance of your approach in achieving the internship objectives. Conclude with a forward-looking statement, expressing how the methodologies learned will contribute to your future endeavors.

# Chapter 7

# Results and Discussion

## 7.1 Understanding Basic Networking Concepts (Weeks 1-2):

During the initial phase of my internship at Accetion Technologies, I delved into fundamental networking concepts. I gained proficiency in Classless Inter-Domain Routing (CIDR), an essential aspect of IP addressing. This knowledge laid the foundation for my subsequent activities, particularly in the realm of cloud computing.

## 7.2 Exploration of Azure DevOps Tools (Weeks 3-4):

In the following weeks, my focus shifted towards Azure, where I dedicated time to familiarize myself with Azure DevOps tools. This involved hands-on experience in setting up and managing virtual machines (VMs) on the Azure platform. Over a span of 2 weeks, I navigated through the Azure portal, creating virtual machines, configuring networking settings, and gaining practical insights into the intricacies of cloud infrastructure.

## 7.3 Immersive Learning in AI Technologies (Weeks 5-6):

Building on my networking and cloud foundation, I transitioned to a comprehensive exploration of Artificial Intelligence (AI) tools within the Azure ecosystem. This phase of my internship involved hands-on experience with various AI services, enabling me to understand their functionalities, applications, and integration possibilities. Topics covered included machine learning models, cognitive services, and the deployment of AI solutions on Azure.

## 7.4 Website Hosting on Azure Cloud (Weeks 7):

With a solid grasp of networking, cloud fundamentals, and AI technologies, I directed my attention towards website deployment and hosting on the Azure cloud. Over a period of 2 weeks, I engaged in the process of configuring web applications, managing databases, and optimizing the performance of a dynamic website. This practical experience in deploying and hosting a website on Azure added a practical dimension to my understanding of cloud computing.

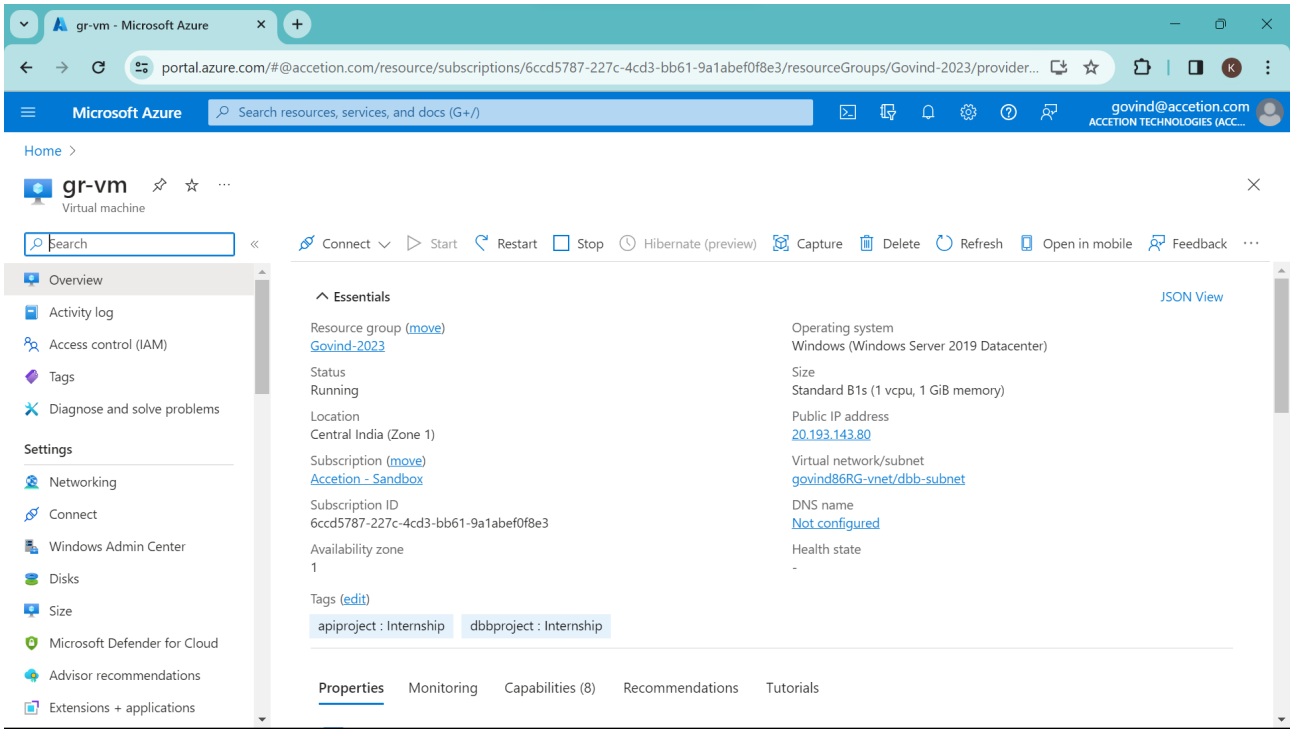
## 7.5 Preparation of Final Report and Demo (Weeks 8):

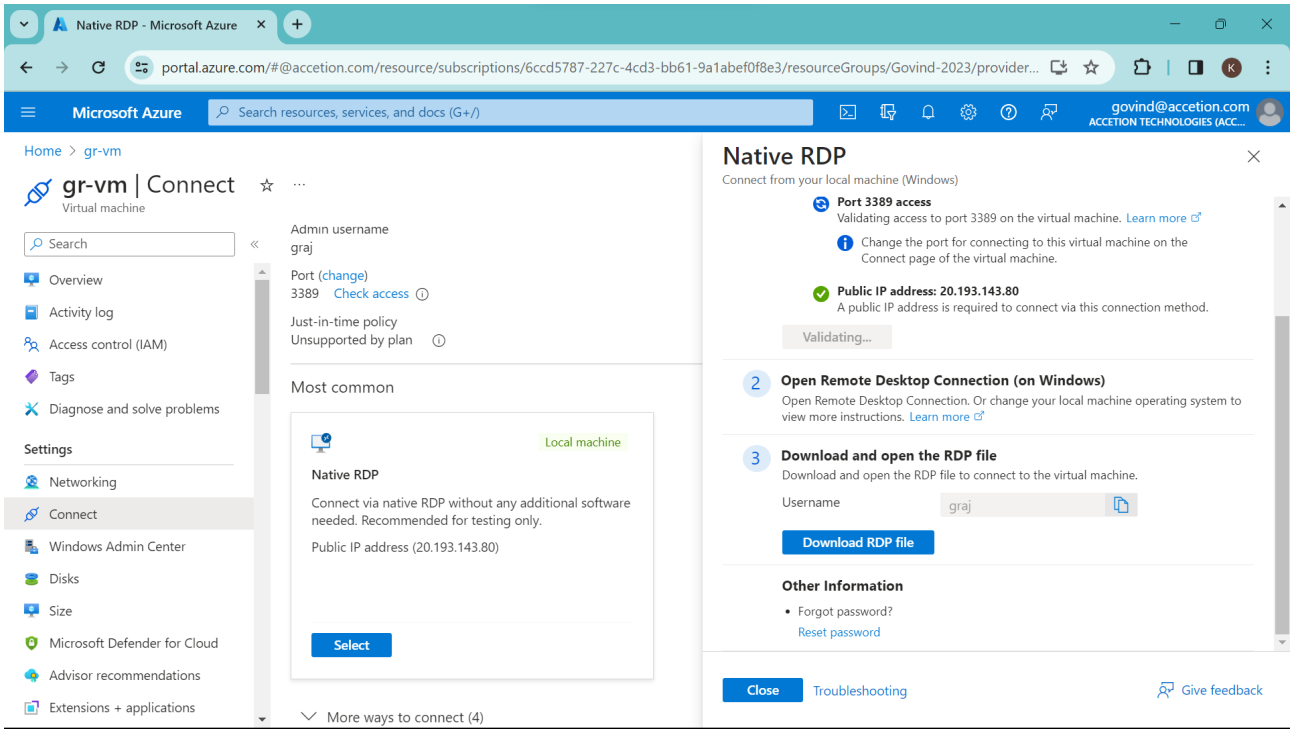
The concluding weeks of my internship were dedicated to synthesizing the knowledge acquired throughout the program. I collated my experiences in networking, Azure DevOps, AI technologies, and website hosting into a comprehensive final report. Additionally, I prepared a demonstration to showcase the practical applications of the skills acquired during the internship. This involved presenting a dynamic website hosted on Azure, highlighting the integration of various technologies and the seamless functionality achieved.

## 7.6 Key Achievements and Insights:

- Developed proficiency in CIDR and fundamental networking concepts.
- Acquired hands-on experience with Azure DevOps tools for VM creation and management.
- Explored diverse AI tools in the Azure ecosystem, gaining insights into machine learning and cognitive services.
- Successfully deployed and hosted a dynamic website on Azure, demonstrating practical cloud computing skills.
- The final report and demo served as a testament to the holistic understanding and application of concepts acquired during the internship.

## 7.7 Output

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Most common
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Connect via native RDP without any additional software needed. Recommended for testing only.
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More ways to connect (4)
Native RDP
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Port 3389 access
Validating access to port 3389 on the virtual machine. Learn more
Change the port for connecting to this virtual machine on the Connect page of the virtual machine.
Public IP address: 20.193.143.80
A public IP address is required to connect via this connection method.
Validating...
2 Open Remote Desktop Connection (on Windows)
Open Remote Desktop Connection. Or change your local machine operating system to view more instructions. Learn more
3 Download and open the RDP file
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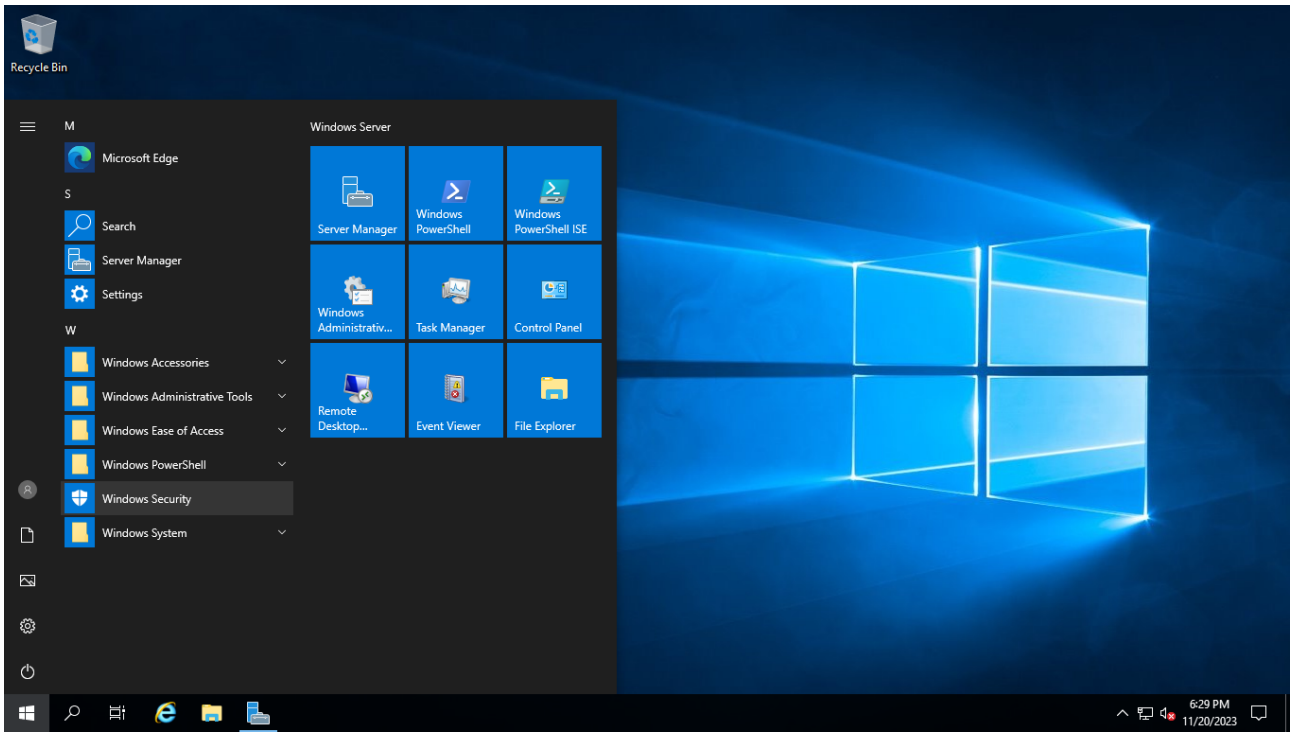
graj
Download RDP file
Other Information
Forgot password?
Reset password
Close
Troubleshooting
Give feedback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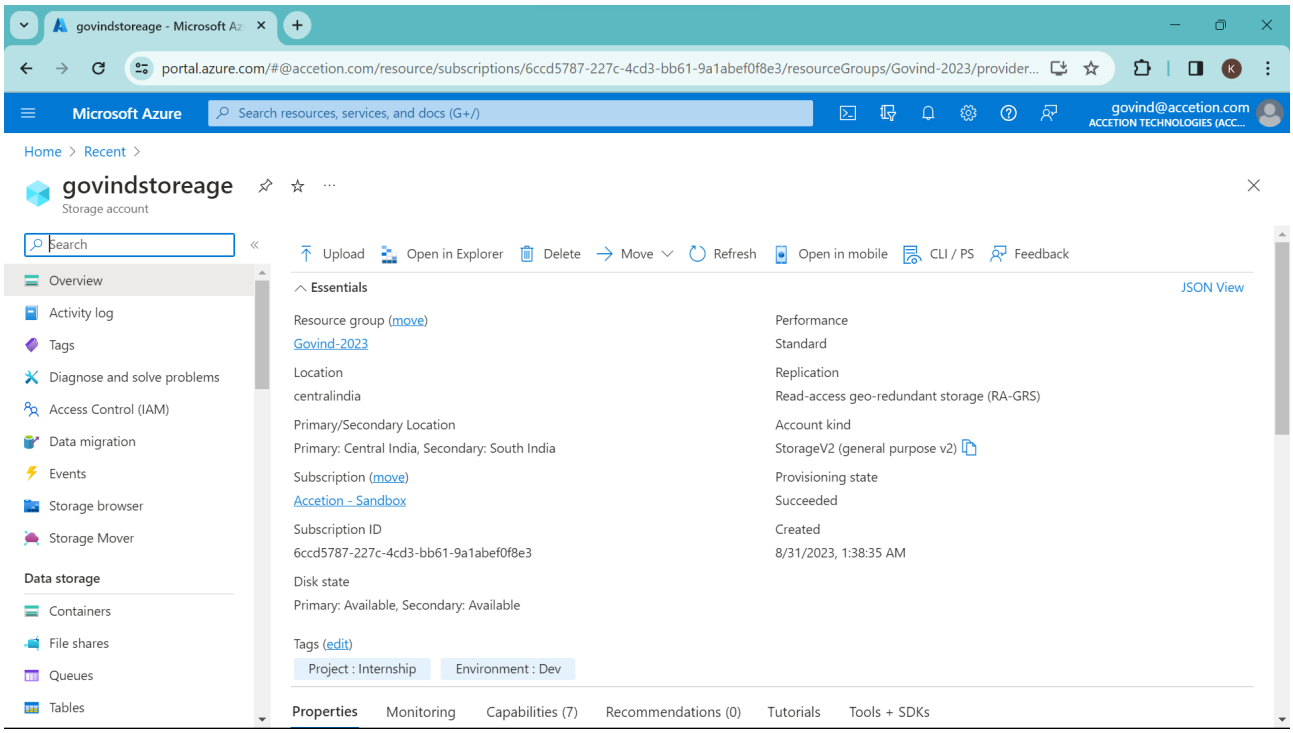


# Govind's Profile

## About Me

Hello, I'm Govind. I'm passionate about Data Science. Highly motivated and detail-oriented individual with a strong Information Science background, proficient in Python, C, Power BI, Microsoft Excel, Azure, and MySQL. Demonstrated expertise in Data Structures and Algorithms (DSA) with successful project implementations, including a Python-based hand cricket game, an interactive Power BI sales dashboard, and a MySQL-based student feedback form. Effective communicator skilled in conveying technical insights to diverse stakeholders. Balancing technical acumen with a passion for badminton, music, and mindfulness practices, I am poised to contribute to data-driven excellence and informed decision-making within your IT company.

## Skills

- HTML
- CSS
- JavaScript
- Python
- C
- Power BI
- Microsoft Excel
- Azure
- MySQL
- Data Structures and Algorithms (DSA)

## Contact

Email: govind@gmail.com

LinkedIn: www.linkedin.com/in/govind-raj2002

## Acme Supplies Inc.

# Invoice

Acme Supplies Inc.
596, Grant Road
Boston, MA, 46225
987-654-3214
support@acmesup.org

| Invoice No. | Date |
|---|---|
| 10024 | 4/23/19 |
| **Customer ID** | **Terms** |
| CT204 | Net 30 Days |

**Attendant Name :** Richard M. Jones
**Attendant Email :** rmjones@acmesup.org

**Ship To :**
**Contact Person :** David Jones
**Street Address :** 500, East Main St.
**City, State, Zip :** Branford, CT, 6405
**Phone :** 123-456-7890
**Email :** info@chhosp.com

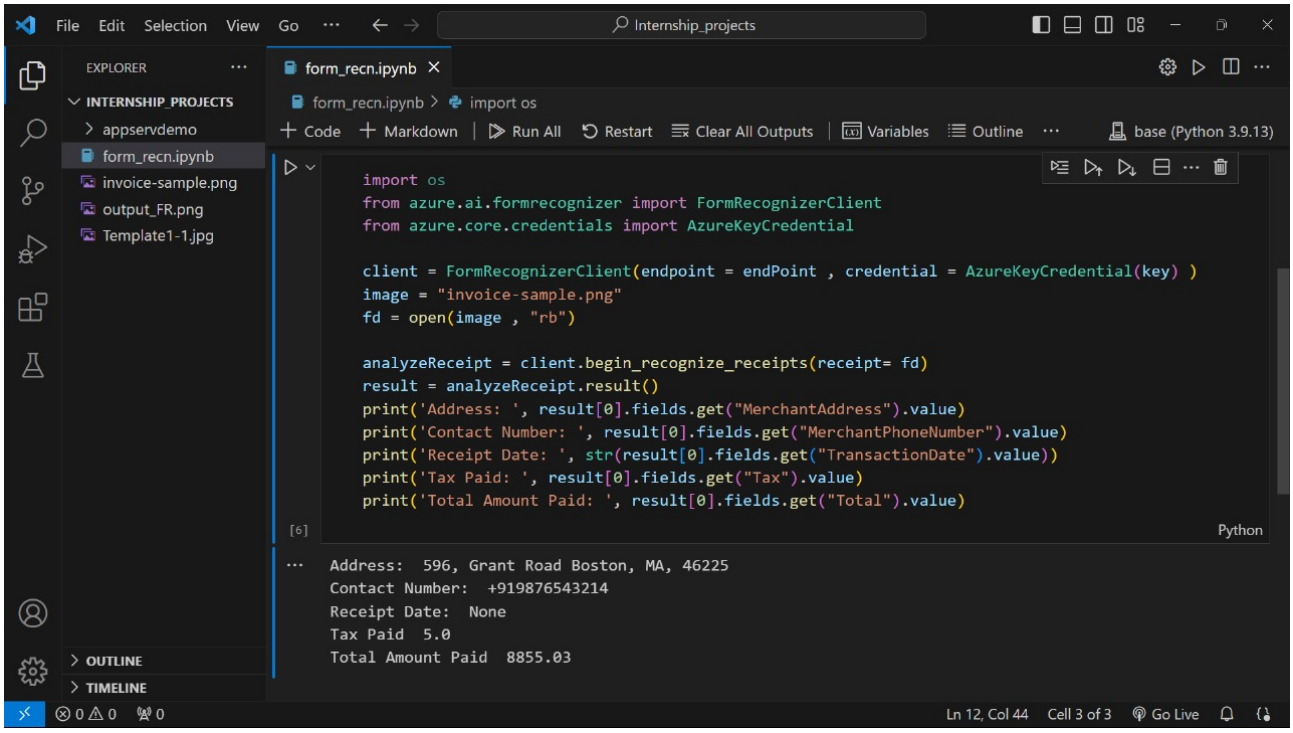
| P. O. No | Order Date |
|---|---|
| 8035 | 4-23-2019 |
| **Packing Date** | **Shipping Date** |
| 4-27-2019 | 4-29-2019 |
| **Sales Person** | **Delivery Date** |
| John Smith | 4-30-2019 |

| Item ID. | Item | Description | Quantity | Price | Total |
|---|---|---|---|---|---|
| RDLP01 | Pencils | Extra Dark - Pack of 12 | 20 | 7.58 | 151.6 |
| BP0316 | Pens | Pack of 12 colors | 20 | 12.5 | 250 |
| CPC450 | Paper Clips | Pack 100 of each | 10 | 11.77 | 117.7 |
| RC2000C | Printer Paper | White 8.5 x 11, Letter size | 40 | 46.45 | 1858 |
| NCP7 | Nescafe powder | Powder 750g each | 60 | 69.65 | 4179 |
| CCLD002 | Disposable cups | With Lids, Pack of 12 | 50 | 19.99 | 999.5 |
| C2612A | Black 12A cartridge | Printer Lazerjet Toner | 1 | 999 | 999 |

| | |
|---|---|
| Sub Total | $8,554.80 |
| Discount | $150.00 |
| Sales Tax % | 5.00 |
| Shipping | 29.99 |
| **Total** | **$8,855.03** |

**Terms :**
Please pay invoice by **5-10-2019**

**John Smith**
Sign on the dotted line above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output_FR.png
Template1-1.jpg
form_recn.ipynb > import os
Code Markdown Run All Restart Clear All Outputs Variables Outline
base (Python 3.9.13)
import os
from azure.ai.formrecognizer import FormRecognizerClient
from azure.core.credentials import AzureKeyCredential
client = FormRecognizerClient(endpoint = endPoint , credential = AzureKeyCredential(key) )
image = "invoice-sample.png"
fd = open(image , "rb")
analyzeReceipt = client.begin_recognize_receipts(receipt= fd)
result = analyzeReceipt.result()
print('Address: ', result[0].fields.get("MerchantAddress").value)
print('Contact Number: ', result[0].fields.get("MerchantPhoneNumber").value)
print('Receipt Date: ', str(result[0].fields.get("TransactionDate").value))
print('Tax Paid: ', result[0].fields.get("Tax").value)
print('Total Amount Paid: ', result[0].fields.get("Total").value)
[6]
Python
Address: 596, Grant Road Boston, MA, 46225
Contact Number: +919876543214
Receipt Date: None
Tax Paid 5.0
Total Amount Paid 8855.03
OUTLINE
TIMELINE
Ln 12, Col 44 Cell 3 of 3 Go Live

# Chapter 8

# Conclusion

To sum up, my internship with Accetion Technologies has been a life-changing journey that has shed light on the complex relationships between cloud computing, DevOps, and artificial intelligence. My understanding of machine learning and its various applications has grown as a result of my immersion in AI technology, and I now have a deeper respect for how AI may transform entire industries. Concurrently, the study of cloud foundations and Azure as a DevOps instrument revealed the potential of scalable, effective, and cooperative cloud solutions.

The successful launch of a dynamic website on the Azure platform marked the end of this enriching experience and demonstrated the usefulness of the learned abilities. Beyond just improving my technical skills, the internship has helped me develop a comprehensive view of technology that emphasizes the value of cooperation, creativity, and adaptability.

# Bibliography

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# Internship completion certificate

ACCETION

**CERTIFICATE OF INTERNSHIP**

This is to certify that Mr. K Govind Raj, a student at Nitte Meenakshi Institute of Technology in Bangalore, has successfully completed a summer internship at Accetion Technologies in Bangalore. The internship took place from July 25th to October 9th, 2023.

During the internship, Mr. K Govind Raj participated in a curriculum that covered various topics such as artificial intelligence, cloud fundamentals, and Azure DevOps. The activities of the internship included becoming familiar with product development, the day-to-day operational processes of the company, as well as gaining an overview of customer management.

Throughout his time with us, Mr. K Govind Raj demonstrated diligence, hard work, and an inquisitive nature.

We extend our best wishes for his continued success in his personal and professional endeavours.

Signed by:
Subrata Das
Subrata Das
Co-Founder & CEO

Virander Sirohi
Co-Founder & CTO

eSign
Signed by: Subrata Das
Reason: Certificate Issue
Location: Bengaluru, India
Date: 08-Nov-2023 (11:45 PM)

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