



Nov 6, 2023

SUBHAPREET PATRO

has successfully completed

AI For Everyone

an online non-credit course authorized by DeepLearning.AI and offered through Coursera

A handwritten signature in blue ink that reads "Andrew Ng".

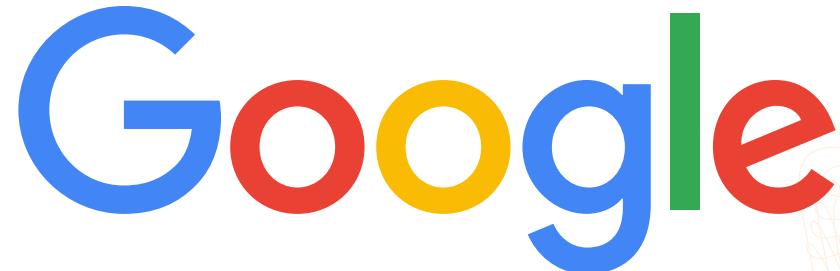
Andrew Ng
Founder, DeepLearning.AI
Co-founder, Coursera

COURSE CERTIFICATE



Verify at:
<https://coursera.org/verify/CTE2V5EMRYQT>

Coursera has confirmed the identity of this individual and their participation in the course.



Jun 26, 2023

SUBHAPREET PATRO

has successfully completed

Foundations: Data, Data, Everywhere

an online non-credit course authorized by Google and offered through Coursera

A handwritten signature of Amanda Brophy is placed over a dotted line.

Amanda Brophy
Global Director of Google Career Certificates

COURSE CERTIFICATE



Verify at:
<https://coursera.org/verify/YJDHRPV9R5NL>

Coursera has confirmed the identity of this individual and their participation in the course.



Nov 7, 2023

SUBHAPREET PATRO

has successfully completed

Introduction to Java

an online non-credit course authorized by LearnQuest and offered through Coursera

Noel J. Bergman

A handwritten signature in black ink that reads "Noel J. Bergman".

Noel J. Bergman

Evan Bergman

COURSE CERTIFICATE



Verify at:

<https://coursera.org/verify/VFR7C6YMHHEN>

Coursera has confirmed the identity of this individual and their participation in the course.



Penn
UNIVERSITY of PENNSYLVANIA

Jun 11, 2023

SUBHAPREET PATRO

has successfully completed

Introduction to Python Programming

an online non-credit course authorized by University of Pennsylvania and offered through Coursera

A handwritten signature in black ink that reads "Brandon Krakowsky".

Brandon Krakowsky
Lecturer
School of Engineering and Applied Science

COURSE CERTIFICATE



Verify at:
<https://coursera.org/verify/U7RJ5WMPG9CA>

Coursera has confirmed the identity of this individual and their participation in the course.



Jun 11, 2023

SUBHAPREET PATRO

has successfully completed

Python Basic Structures: Lists, Strings, and Files

an online non-credit course authorized by Codio and offered through Coursera

Elise Deitrick, PhD
VP of Product
Codio

Patrick Ester
Curriculum Developer
Codio

COURSE CERTIFICATE



Verify at:
<https://coursera.org/verify/8AG88R7DDC7P>

Coursera has confirmed the identity of this individual and their participation in the course.



RICE UNIVERSITY

Jun 12, 2023

SUBHAPREET PATRO

has successfully completed

Python Programming Essentials

an online non-credit course authorized by Rice University and offered through Coursera

Scott Rixner
Professor
Dept. of Computer Science
Rice University

Joe Warren
Professor
Dept. of Computer Science
Rice University

COURSE
CERTIFICATE



Verify at:
<https://coursera.org/verify/5AZSJU7XP9KR>

Coursera has confirmed the identity of this individual and their participation in the course.

COVER LETTER

Subhapreet Patro
#301, Sanvi Heights
Hyderabad, 500089
Telangana
2211CS010547@mallareddyuniversity.ac.in
Ph: +91-7569753540

May 31, 2024

Kashish Thakur, Technical Recruiter
Amazon
Bangalore

Dear Kashish,

I am excited to apply for the Software Development Engineer position at Amazon, as advertised. Recently graduated with a Bachelor's degree in Computer Science and Engineering, I am eager to contribute to Amazon's innovative projects and grow within your esteemed organization.

My academic journey has equipped me with a strong foundation in computer science principles and software engineering practices. Through internships and personal projects, I gained hands-on experience in software development, database management, and cloud computing.

Amazon's global leadership in technology and e-commerce has always inspired me. I am drawn to Amazon's customer-centric approach and its culture of innovation. I am eager to collaborate with talented individuals to solve complex challenges and drive meaningful impact.

My passion for learning and staying at the forefront of tech aligns well with Amazon's culture of continuous innovation. I am confident that my academic background and enthusiasm for technology make me a strong fit for this role. I am excited about the possibility of contributing to Amazon's success and being part of its vibrant community of innovators.

Thank you for considering my application. I look forward to discussing how my qualifications align with your team's needs.

Warm regards,
Subhapreet Patro

English for Technical Communication and Employability Skills

CSE(Group-7A)-2211CS010547

Subhapreet Patro



2023-2024

Instructor:
Dr. Shazia Khan



COURSE PORTFOLIO

Completed Yes/No	Contents	Description	Reviewed by the Teacher
	Introduction	Brief bio: Introduce yourself, including your academic background, major, and career goals. Professional photo: A clear and professional-looking photograph of yourself	
	Technical Communication and Employability Skills	Definition and importance in professional settings Distinction between technical and general communication Overview of Employability Skills	
	Presentations	Power Point or slides from presentations you've given, including any associated scripts or speaking notes.	
	Resume and Cover Letter	Include an up-to-date and well-formatted resume that highlights your education, skills, work experience, and relevant projects. Sample cover letter(s) you've written for job applications or internship opportunities.	
	Technical Documents - Reports	Any technical documents you've created, such as system specifications, design documents, or project plans.	
	Collaboration and Teamwork	Examples of collaboration: Showcase instances where you worked effectively in a team, including group projects or collaborative initiatives.	
	Certificates and Training	Include certificates related to technical skills or professional development programs you've completed.	
	Technical Skills and Employability Skills	A comprehensive list of your technical skills, categorized by proficiency level. Showcase your soft skills such as communication, teamwork, problem-solving, and adaptability. Provide examples or anecdotes that demonstrate these skills in action.	
	Professional Development	Workshops or conferences attended, online courses completed, or any continuous learning initiatives you've undertaken.	
	Internships and Work Experience	Details of any internships or work experiences, including the roles you played and the skills gained.	
	LinkedIn Profile	Include a link to your LinkedIn profile for recruiters or employers to learn more about your professional network and endorsements	
	References	Contact information for references or recommendation letters from professors, mentors, or employers.	

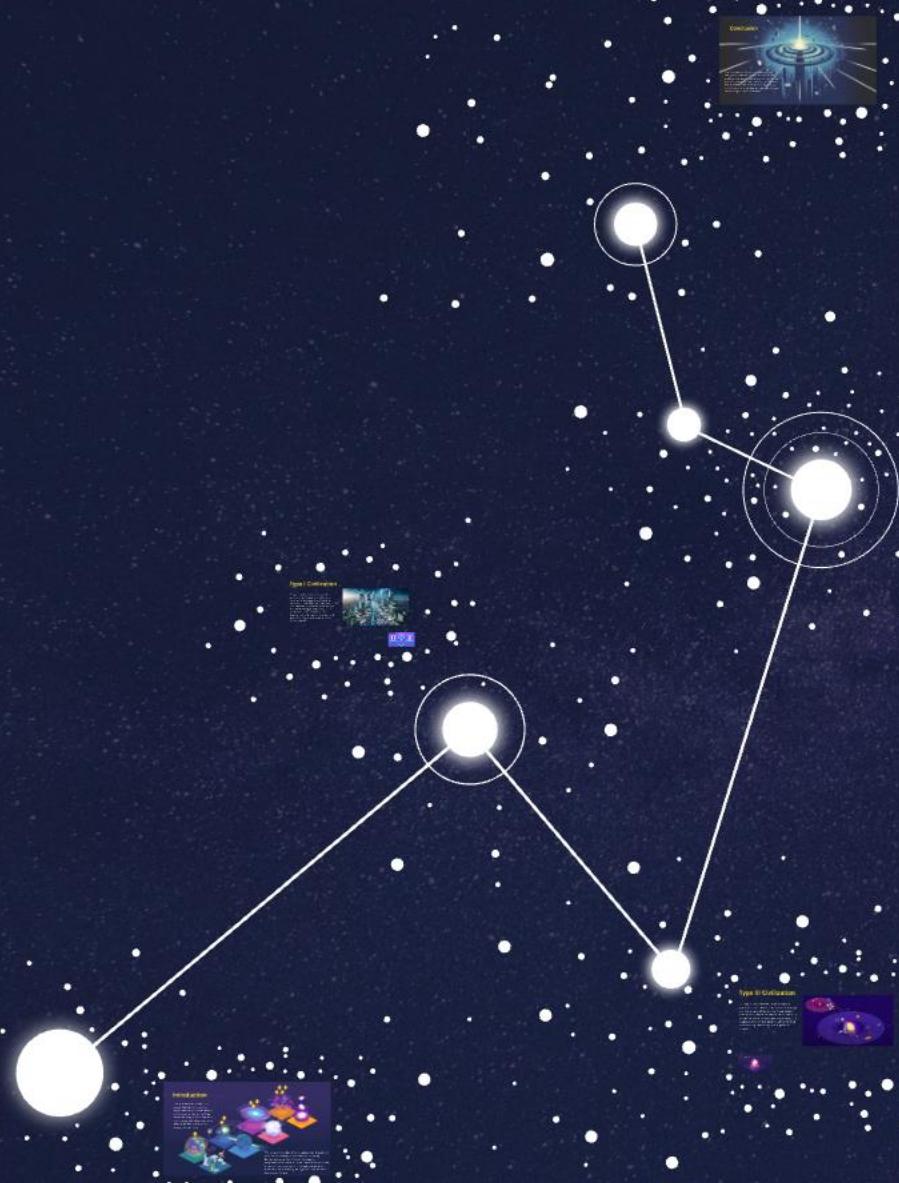
Faculty In-charge

Head of the Department

Include a link to your LinkedIn profile for recruiters or employers to learn more about your professional network and endorsements

<https://www.linkedin.com/in/subhapreet-patro-444a02277/>

The screenshot shows a LinkedIn profile page for Subhapreet Patro. At the top, there is a large, light blue placeholder area for a profile picture, featuring a camera icon inside a white circle. To the right of this placeholder is a smaller, light blue section with a camera icon in a white circle. Below the placeholder, the user's name "Subhapreet Patro" is displayed in bold black text. Underneath the name, it says "Student at Malla Reddy University" and "Hyderabad, Telangana, India · Contact info". There is a "1 connection" link. Below these details are three buttons: "Open to", "Add profile section", and "More". A blue callout box labeled "Open to work" is visible, mentioning "Software Engineer roles" and a "Show details" link. Another callout box encourages sharing hiring information, with a "Get started" link. The overall background is white with some light blue and grey accents.



Kardashev's Scale

Measuring Technological Advancement

Name: Subhapreet Patro
Roll No.: 2211CS010547
Group: 7A

Introduction

The Kardashev scale is a classification system for hypothetical extraterrestrial civilizations. It's a method of measuring a civilization's technological advancement based on the amount of energy it can use.



The scale includes three categories based on how much energy a civilization is using. Soviet astronomer Nikolai Kardashev proposed the scale in 1964. Based on current levels of development, it is estimated that humanity is currently at Type 0.7276 on the Kardashev Scale.

Type I Civilization

A Type I civilization, also called a planetary civilization, can use and store all of the energy available on its planet. This includes the energy that reaches the planet from its star (like solar energy), the energy produced inside the planet (like geothermal and nuclear energy), and any other forms of energy present on the planet.



Type II Civilization

Ring World

Black Hole Bomb

Stellar Engine



A Type II civilization, also known as a stellar civilization, can harness the total energy of its planet's parent star. The most popular hypothetical concept for this is a Dyson Sphere. This is a massive artificial structure that could encompass a star and capture a large percentage of its power output.



Type III Civilization

A Type III civilization, also called a galactic civilization, can control energy on the scale of its entire host galaxy. For a civilization to reach this status, it must be able to harness the energy output of a whole galaxy, utilizing and controlling resources on a galactic scale.



Beyond the Kardashev Scale

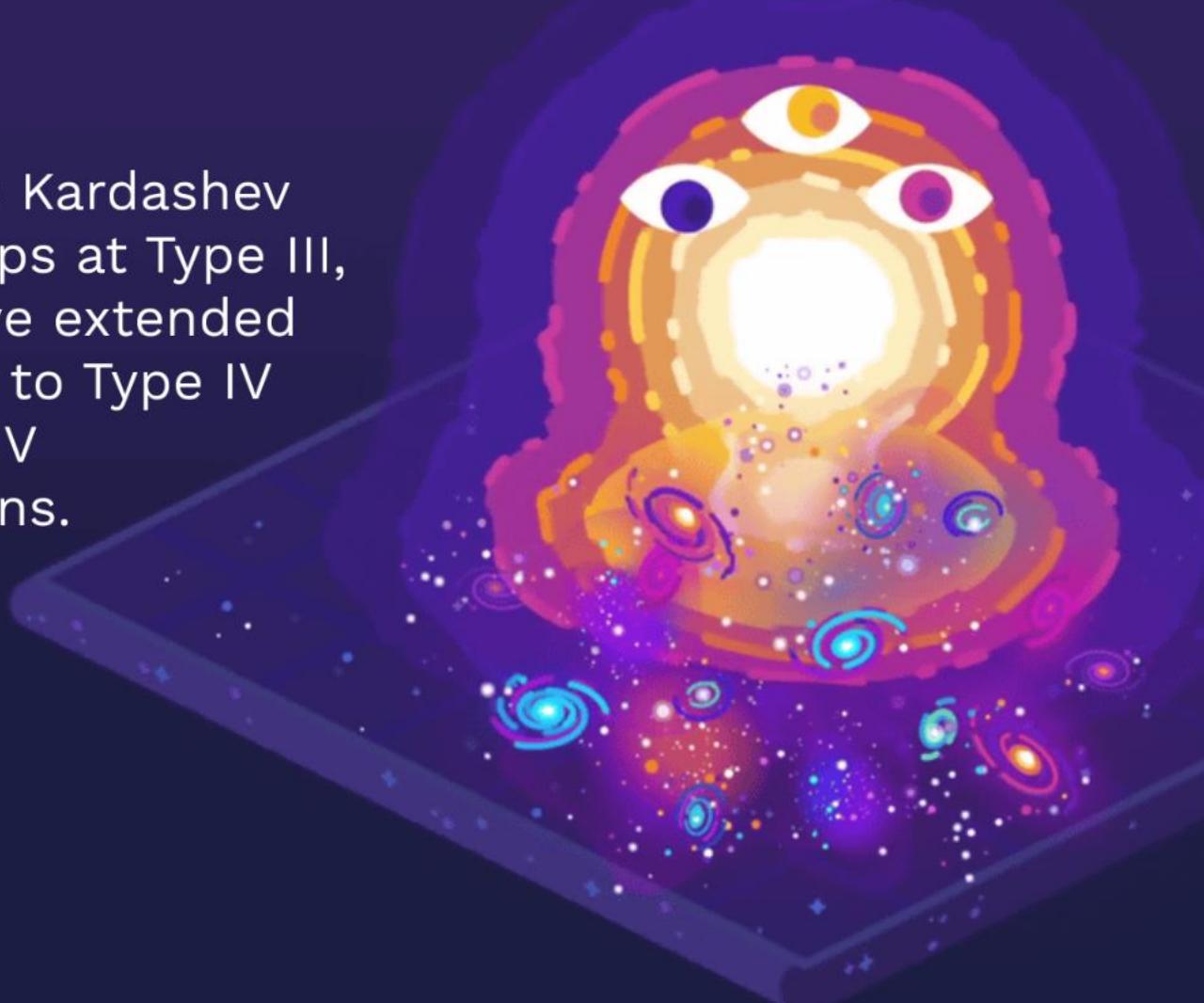
While the Kardashev Scale stops at Type III, some have extended the scale to Type IV and Type V civilizations.



A Type IV civilization would have access to the energy content of the entire universe and a Type V would be a civilization beyond our current understanding of physics, essentially a god-like entity.

Beyond the Kardashev Scale

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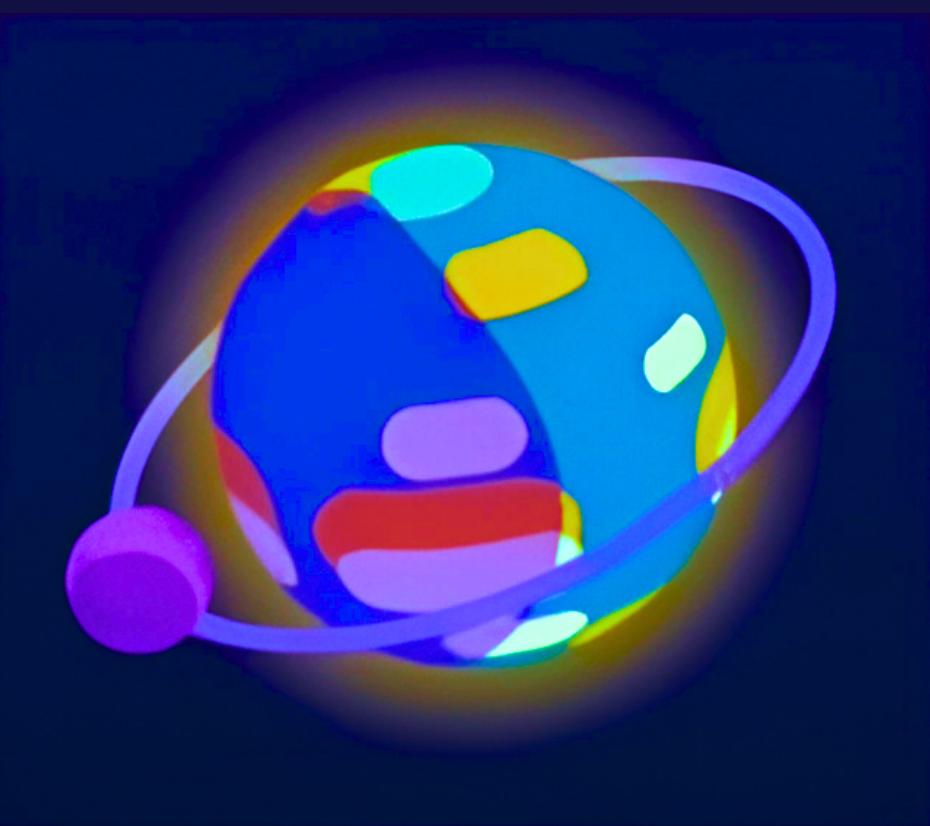
Conclusion



The Kardashev Scale is a fascinating thought experiment that allows us to explore the potential future of humanity and our place in the cosmos. While we are currently far from even a Type I civilization, it provides a roadmap for our technological advancement.

KARDASHEV SCALE

MEASURING TECHNOLOGICAL ADVANCEMENT



PLANETARY CIVILIZATION

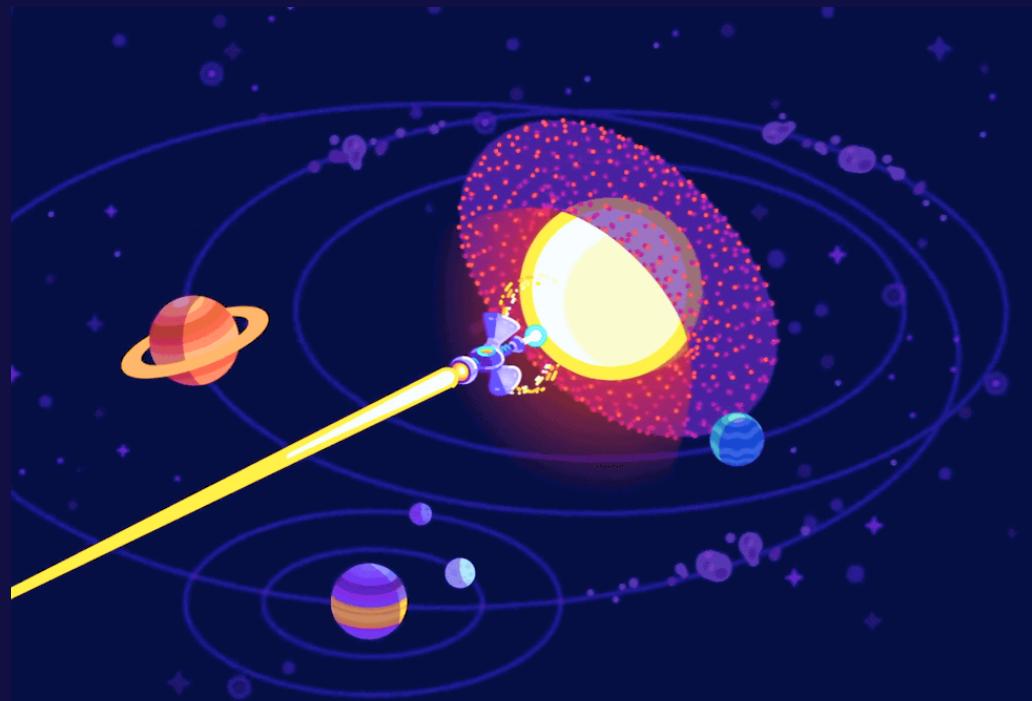
A Type 1 civilization is able to harness all of their planet's energy from the parent star. This type has control over the entire planet's natural forces.

TYPE-1

STELLAR CIVILIZATION

TYPE-2

A Type 2 civilization can harness all energy from their host star with a Dyson sphere, enabling interplanetary expansion within their solar system.



GALACTIC CIVILIZATION

TYPE-3

A Type 3 civilization harnesses the energy of its entire galaxy, enabling galactic travel and colonization of multiple star systems.

Contact information for references or recommendation letters from professors, mentors, or employers.

Dr. XYZ

Senior Professor

Department of Computer Science and Engineering

Malla Reddy University

Kompally, Hyderabad-500100

18th June, 2024

To ABC,

I am writing to recommend Subhapreet Patro for Masters in Computer Science and Engineering. As a student in our B.Tech Computer Science and Engineering program, Subhareet Patro has consistently impressed me with their exceptional academic performance, strong problem-solving skills, and innovative thinking.

In courses such as Data Structures, Algorithms, and Machine Learning, Subhapreet demonstrated a deep understanding of complex concepts and consistently delivered outstanding work. His project on Student Database Management System showcased his ability to develop efficient algorithms that improve processing speed and accuracy.

Beyond academics, Subhapreet has shown leadership as a Team Leader in Application Development, enhancing student engagement and organizing successful events. They also conducted significant research on Data Visualization, demonstrating their ability to contribute original ideas and conduct thorough research.

Subhapreet Patro possesses excellent interpersonal skills and communicates technical concepts effectively, as evidenced during presentations and seminars. Their dedication, initiative, and collaborative spirit make them a standout candidate for Masters in Computer Science and Engineering.

I am confident that Subhapreet Patro will continue to excel and contribute positively to your institution. Please feel free to contact me for any further information.

Sincerely,

Dr. XYZ

Senior Professor

Department of Computer Science and Engineering

Malla Reddy University

Showcase your soft skills such as communication, teamwork, problem solving, and adaptability.

Provide examples or anecdotes that demonstrate these skills in action.

1) Communication:

- Project: Student Management System (using Python and MySQL)
- Situation: In a project aimed at developing a student management system, I was responsible for designing and implementing the database as well as writing and reviewing the backend code.
- Action:
 - I facilitated regular meetings with team members, including front-end developers and database administrators, to discuss design ideas, outline database structures, and ensure consistency across all system components.
 - During these meetings, I actively listened to team members' input, asked clarifying questions, and articulated my thoughts clearly to address any concerns.
 - I also created detailed documentation and style guides to ensure that everyone was aligned with the project's objectives and standards.
- Result:
 - The clear and open communication helped streamline the development process, resulting in a robust and user-friendly student management system that received positive feedback from users.
 - The project was completed on time and exceeded the initial quality expectations.

2) Teamwork:

- Project: Admin Dashboard (using MERN Stack and Nivo Charts)
- Situation: As part of a multidisciplinary team, I worked on developing an admin dashboard for visualizing key metrics and managing data.
- Action:
 - I collaborated closely with data scientists to preprocess and integrate data, ensuring it was suitable for visualization.
 - I engaged in regular code reviews and pair programming sessions with other developers to build and integrate components of the dashboard using the MERN stack.
 - I participated in daily stand-up meetings and regular sprint reviews to keep everyone updated on progress and address any blockers.
- Result:
 - The collaborative efforts led to the successful development and deployment of the admin dashboard, providing users with insightful visualizations and efficient data management tools.

- The teamwork fostered a positive and productive working environment, with team members feeling valued and supported.

3) Problem Solving:

- Project: Multi-functional Calculator (using Java Swing)
- Situation: In one of my courses, we had a project to develop a multi-functional calculator that included a scientific calculator, unit converter, matrix calculator, and graphing calculator.
- Action:
 - Our initial implementation faced several challenges, including performance issues and bugs in the matrix calculator.
 - I took the initiative to analyze the issues and identify their root causes. I proposed several optimizations and fixes, such as improving the algorithms used for matrix operations and optimizing the user interface for better performance.
 - I collaborated with my team to implement these changes and tested each functionality extensively.
- Result:
 - The performance of the multi-functional calculator improved significantly, and all components worked seamlessly.
 - The project received high marks, and our work was praised for its comprehensive features and effective problem-solving approach.

Brief bio: Introduce yourself, including your academic background, major, and career goals.

Professional photo: A clear and professional looking photograph of yourself.



Good morning, I am Subhapreet Patro, an engineering pursuing my B. Tech in Computer Science and Engineering at Malla Reddy University. My native place is Puri, Orissa, which is also known for its presence of one of the Chardham sites – the Jagannath temple. I completed my secondary education from Scholars International School, Puppalaguda and my Intermediate in Sri. Chaitanya Junior College, Narsingi.

My hobbies include playing chess and video games, as well as listening to music. My goal is to become a skilled software engineer because computers and technology always surprise me. At present my aim is to upskill myself by enhancing my communication skills and technical skills.

Definition and Importance in Professional Settings

Communication

Communication is all about sharing information, ideas, thoughts, and feelings between people or groups. In the workplace, good communication is crucial because it helps teams collaborate, boosts productivity, and builds strong relationships. It's not just about sending a message but making sure it's understood correctly. Effective communication can prevent misunderstandings, solve problems quickly, and create a positive work environment.

Distinction Between Technical and General Communication

Technical Communication

Technical communication deals with conveying complex information clearly and precisely, often in specialized fields. Examples include:

- Technical reports
- User manuals
- Technical specifications
- Research papers

This type of communication often uses specific jargon, data, and a structured format to ensure accuracy and clarity. It's essential in fields like engineering, IT, and science where precise information is crucial.

General Communication

General communication covers a broader range of everyday interactions that don't require specialized knowledge. Examples include:

- Interpersonal communication
- Business emails and memos
- Presentations
- Meetings

These skills are vital for effective interactions in various contexts, helping with teamwork, conflict resolution, and maintaining good workplace relationships.

Overview of Employability Skills

Employability skills are the transferable skills that help you succeed in any job. They combine hard skills (specific, teachable abilities) and soft skills (interpersonal traits). Key employability skills include:

1. Communication Skills

- Speaking and writing clearly and effectively
- Listening actively and providing feedback

2. Teamwork and Collaboration

- Working well with others
- Building relationships and contributing to team goals

3. Problem-Solving Skills

- Thinking critically and analytically
- Being creative in finding solutions

4. Time Management and Organizational Skills

- Prioritizing tasks and managing time well
- Staying organized and meeting deadlines

5. Adaptability and Flexibility

- Being open to change and new ideas
- Handling multiple tasks and shifting priorities

6. Technical Skills

- Being proficient in specific tools, technologies, or methods relevant to your job
- Continuously learning and improving your skills

7. Leadership Skills

- Guiding and motivating others
- Making decisions and taking responsibility

Examples of collaboration: Showcase instances where you worked effectively in a team, including group projects or collaborative initiatives.

Collaboration and Teamwork:

- Project: Admin Dashboard (using MERN Stack and Nivo Charts)
- Situation: As part of a multidisciplinary team, I worked on developing an admin dashboard for visualizing key metrics and managing data.
- Examples of Collaboration:

1. Collaborating with Data Scientists:

- Action: I worked closely with lecturers and peers to preprocess and integrate data, ensuring it was suitable for visualization. This involved understanding their requirements, providing feedback, and iteratively refining the data processing pipelines.
- Result: This collaboration ensured that the data visualizations were accurate and meaningful, enhancing the dashboard's overall utility.

2. Engaging in Code Reviews and Pair Programming:

- Action: I engaged in regular code reviews and pair programming sessions with other peers and fellow mates. These activities fostered knowledge sharing and helped us maintain high code quality.
- Result: The collaborative coding practices led to a more robust and maintainable codebase, and also facilitated mutual learning and skill development among team members.

3. Participating in Daily Stand-ups and Sprint Reviews:

- Action: I participated in daily stand-up meetings and regular sprint reviews to keep everyone updated on progress and address any blockers. I contributed by providing status updates, discussing challenges, and proposing solutions.
- Result: These regular touchpoints ensured that the team remained aligned and could quickly address any issues, leading to a smooth and efficient development process.

4. Designing and Implementing Dashboard Features:

- Action: I worked collaboratively with lecturers and students having expertise in UI/UX to translate their designs into functional components. This involved continuous feedback loops to ensure that the implementation matched the design vision.
- Result: The effective collaboration with designers resulted in a user-friendly and visually appealing dashboard, which was well-received by the end users.

Outcome:

- The collaborative efforts led to the successful development and deployment of the admin dashboard, providing users with insightful visualizations and efficient data management tools.
- The teamwork fostered a positive and productive working environment, with team members feeling valued and supported. The project not only met but exceeded the initial expectations, thanks to the strong collaboration and communication within the team.

Sample Output:

