

RASHMI JANBANDHU

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1. CAREER OBJECTIVE

A dynamic Computer Science professional, awarded two Gold Medals for academic excellence, I bring over 9 years of expertise from renowned institutions such as Indian Institute of Information Technology (IIIT), Symbiosis International University, and WhiteHat Jr. My objective is to apply this wealth of experience to design and deliver impactful global training programs. Passionate about curriculum development, I excel in crafting comprehensive modules integrating advanced programming languages such as Python (Pandas, NumPy, TensorFlow and more AI/ML Libraries), React, Native, JavaScript, HTML, CSS, and databases (Firebase, Firestore, MongoDB) also encompassing concepts of VR and AR—harmonizing fundamental concepts with industry requisites. Adept at course planning, learning material curation, and assessment framework establishment, I ensure a global progressive learning path. Having honed collaborative skills, I actively contribute to team upskilling and work closely with Learning Experience and Campus Program Teams. Committed to student engagement and continuous improvement, my goal is to elevate individuals, fostering personal growth and contributing significantly to the organization's success.

2. CERTIFICATION AND ACHIEVEMENT

- Certified Whitehat Junior Content Development:
 - Led innovation in teaching methodologies, driving a comprehensive redesign of trail documents.
 - Recognized by former CEO Karan Bajaj for personalized, impactful content delivery.
 - Established blueprint for company-wide standards.
- Acknowledged by White Hat Junior for mastering White Hat Junior Curriculum Basics Training Skills.
- Recognized for Outstanding knowledge and skills in Professional-Level App Development fundamentals.
- Demonstrated expertise in Game Design Fundamentals at the Professional Level.
- Awarded for Outstanding knowledge and skills in iOS and Android App Development at the Professional Level.
- Acknowledged as Platform Expert at Professional Level by White Hat Junior, a global Edtech.
- Copyright Achievements (Government of India):
 - Secured copyrights for innovative "Object Oriented Methodology" Lab Manual.
 - Obtained copyright recognition for developing an E-commerce Web Crawler using the S4 Algorithm.
- **Intel Certified** Leader of Learning Experiences:
 - Course 1: "Remote Learning."
 - Course 2: "Establishing Effective Educator-Machine Partnership."
 - Course 3: "Fostering Student Engagement in the Age of Digital Distraction."
- Achieved 88.26% in National Eligibility Test (NET) for lectureship eligibility conducted by University Grants Commission, New Delhi, India
- Dale Carnegie: Generation Next Program, New York, Certified for demonstrating proficiency in Self-confidence, Communication, Interpersonal Skills, Teamwork, Leadership, and Attitude Management areas vital for personal and professional growth.
- Feedback for Subjects taught has always been in the range of 90-95 percent or above.
- Received awards for outstanding achievements in academics at the hands of Shri Dattaji Meghe, Chairman, Meghe Group and Mr. Suhas Gopinath, The Youngest CEO then.

3. EXPERIENCE

- **WhiteHat Junior/ ByjusFutureSchool**, Headquarters: Mumbai, India/ San Francisco, California : (Remote) Oct 2020-Present
 - **Professional Coding Trainer-Director Instructor:** Jun 2021 - Present | 2 years 9 months
 - Spearheading initiatives to enhance the learning experience at WhiteHat Jr, contributing to mentorship, content creation, and teacher training.
 - Collaborating closely with various teams in content creation and training of teachers on the platform.
 - Leading video content creation for the Learning Management System (LMS) and overseeing project creation and content review.
 - Conducting training sessions for teachers through webinars and creating presentations for webinar sessions.
 - Hosting webinars on class lessons, specific topics, and for doubt resolution.
 - Playing a pivotal role as a Community Ambassador, engaging with the community through webinars and activities.
 - **Projects worked on:**
 - JavaScript Projects:
 - Trex Runner Game: Developed an **interactive game** utilizing JavaScript's capabilities in game development.

- Games Using Physics Engine: Engineered multiple games leveraging **JavaScript's physics engine**, demonstrating proficiency in dynamic simulations and interactive experiences.
- React Native Projects:
 - Dyslexia Assistance App: Designed and developed an application to aid dyslexic students in pronunciation, showcasing expertise in accessibility and user-centric design.
 - E-Library Management App: Fronted the creation of an e-library management application with a **QR** reader, streamlining library operations and enhancing user experience.
 - ISS Tracker App: Built an application utilizing React Native and NASA's **API** to track the International Space Station and display meteor information in real-time, demonstrating skills in data visualization and API integration.
- Python Projects:
 - Utilized OpenCV for image and video processing, employing Haar Feature-based Cascade Classifiers for object detection as per specific requirements, along with CSRT Tracker.
 - Implemented hand gesture detection using the MediaPipe library to control the system mouse virtually, leveraging the pynput and PyAutoGUI libraries.
 - Applied machine learning techniques for classification tasks, incorporating models from Teachable Machine.
 - Worked with the Pneumothorax Image Dataset to detect infections in X-ray images using Convolutional Neural Networks (CNN) on Google Colab.
 - Conducted sentiment analysis on customer reviews using tokenization and a model capable of predicting sentiments, employing algorithms such as Convolutional Neural Networks (CNN) and LSTM layers.
 - Developed a digital diary with an AI chatbot using the Flask framework, NLTK's PorterStemmer() class, and the Pickle module.
 - Implemented web scraping functionalities using the BeautifulSoup and Selenium libraries.
- A-Frame Framework Proficiency (VR):
 - Proficient in A-Frame web development, adept at crafting immersive VR experiences with sky, textures, and precise relative positioning.
 - Skilled in integrating 3D models, lighting, and shadows, with expertise in creating custom components for enhanced interactivity.
 - Experienced in utilizing A-Frame's DOM and JavaScript event handling for dynamic content, including keyboard-based model manipulation.
 - Proficient in A-Frame's physics system, navigation meshes, and audio integration, with a strong understanding of its synergy with Three.js for advanced 3D rendering.
- Web AR with Aframe:
 - Specialized in Web AR Development with A-Frame: Demonstrated expertise through projects such as AR menu cards and AR chemistry compound visualization.
 - Proficient in implementing various AR techniques including image tracking, custom marker recognition, and barcode marker-based AR. Skilled in integrating A-Frame with databases for dynamic AR experiences.
- **Professional Coding Trainer-Mentor Instructor:** *Jan 2021 - Jun 2021 / 5 months*
 - Guided and supported new teachers as a Mentor, focusing on onboarding, trial conversions, and query resolution.
 - Drove key performance metrics for coachees, including improving project submission percentage and paid class consumption.
 - Conducted frequent calls and periodic performance checks for coachees, resolving queries and doubts.
 - Engaged in various activities to enhance the learning journey of coachees.
- **Professional Coding Trainer-Coding Instructor:** *Oct 2020 - Jan 2021 / 3 months*
 - Started as a Coding Instructor, responsible for delivering trial classes globally and achieving conversion to paid curriculum.
 - Achieved the criteria to become a Mentor in just 3 months, receiving a student rating of 5/5.

• **Symbiosis International University**, Nagpur, Maharashtra, India:

Feb 2023 -Present

- **Subject Matter Expert:**
 - Spearhead comprehensive instruction on cutting-edge Full Stack Development, specializing in the MERN
 - Conduct engaging Theory and Practical sessions, ensuring hands-on learning.
 - Instruct Core Java Fundamentals to build a strong programming foundation.
 - Contribute to syllabus development, aligning curriculum with industry standards.
 - Stay current with tech trends, actively shaping a dynamic learning environment.

- **Priyadarshini Indira Gandhi College of Engineering**, Nagpur, Maharashtra, India: June 2019 -September 2020
 - **Subject Matter Expert:**
 - Created a AI/ML python project, pioneering text detection in videos. eg. detection of Text on hoarding from a video captured while passing by on a vehicle.
 - Instructed diverse subjects including CAO, Programming Language C, and Computer Networks, emphasizing TCP and took hands-on session (wherever possible) aligning them with industry standards.
- **YouLearn Artificial Intelligence Certification**, Nagpur, Maharashtra, India: June 2018-May 2019
 - **Machine Learning/Artificial Intelligence trainee:**
 - Completed intensive training in Python for Data Science, covering Basic Python, Object-Oriented Programming, and crucial modules such as Pandas, numpy, matplotlib, and seaborn.
 - Acquired expertise in Machine Learning, encompassing Introduction, Supervised/Unsupervised/Semi-supervised learning, and algorithms.
 - Proficient in using Scikit-Learn for machine learning tasks and employed Keras as an interface for TensorFlow, focusing on deep learning applications.
 - Emphasized statistical analysis, data analysis, and visualization techniques in the context of data science and machine learning.
- **Indian Institute of Information Technology**, Nagpur, Maharashtra, India: January 2018 – May 2018
 - **Assistant Professor:**
 - Facilitated Application Programming and Software Engineering courses, ensuring comprehensive understanding among students.
 - Played a pivotal role in the inception phase, actively contributing to setting up labs for cutting-edge course syllabi.
 - Spearheaded the formation of teams for technical and cultural events, showcasing leadership and organizational skills.
 - Engaged in critical responsibilities for the exam committee, actively contributing to the development of evaluation structures.
 - Core Committee Member: Contributed to the strategic planning and execution of technical events, leveraging expertise and fostering collaboration among faculty and students.
- **Rajiv Gandhi College of Engineering and Research**, Nagpur (Meghe Group), Maharashtra, India: Dec 2013-Jan 2018
 - **Assistant Professor:**
 - Instructed subjects like Programming Language C, Object Oriented Methodology, Computer Network, TCP/IP, Data Structures and more
 - Co-Coordinator of National Institutional Ranking Framework (NIRF).
 - Faculty In charge of ICPC level Day-Night Technical Event-Kodotek 2k16 organised by department of CSE
 - Reviewer in National Conference for Information and Communication Technology.
 - Co-Coordinator of Technical Event - Project Extravaganza 2k16 organized by Department of IT
 - Editorial head of the Departmental Magazine "IUVENTUS" for the session 2013-14, 2014-15 and 2015-16 for Department of IT
 - Core committee Member of Cultural fest-Malhar 2015
 - Committee member of Technical Event - Websight.War-15 organized by Department of IT
 - Core committee Member of one day Workshop on "Social Awareness on Cyber Security"-2015
- **Soft Skill Technology**, Nagpur, Maharashtra, India : June 2013 - December 2013
 - **Developer:**
 - Excelled as a Developer, specializing in impactful web development.

4. TECHNICAL PROFICIENCIES/SKILLS AND TOOLS

- **Programming Language:**
 - Python: Pandas, numpy, matplotlib, seaborn, Scikit-Learn, keras, tensorflow, OpenCV: Face detection, text detection in video, Mediapipe: Hand Gesture Recognition, matplotlib, Web app-Ajax and jQuery, flask, nltk, selenium, beautifulsoup, currently exploring NST (Neural Style Transfer)
 - React: DOM, Validation, Event Handling/Validation, Toggle Navigation, JSX, jest, gulp
 - React native App on Snack Expo and VSC

- JavaScript: Sprites, gaming constructs, physic engine.
- HTML, CSS, Bootstrap, Tailwind.
- Aframe, Web based VR, Web based Image Tracking AR, Web based Custom Marker AR,
- Databases: Google-Firebase, Google-Firestore, MongoDB, MongoDB Compass, postgresql, mysql
- Programming Language C
- **Platforms:** VSC, Code.org, p5js, node.js, jupyter, Google-Colab, Google- Teachable Machine, GitHub, Snack Expo, Tinkercad, Glitch, Canva, Thinkable.
- **App Development:** Applications with features like QR, API, Database (Firebase/Firestore)
- **Operating System:** Windows, macOS and Linux

5. ACADEMIC PROJECT DETAIL

- **Title: Aptitude test manipulation for Software Industry**
 - **Description:** Software enables students to simulate online aptitude tests, familiarizing them with industry recruitment procedures.
 - **Technology used:** Java (JSP).
- **Title: Design and Implementation of Focused web Crawler.**
 - **Description:** Model enhances web crawler efficiency by optimizing four key relevance attributes: URL words, anchor words, Parent Page relevancy, and surrounding text relevancy, crucial for search engine effectiveness.
 - **Technology used:** Java.
- **Title: Design and Implementation of Focused web Crawler using Semantic Lexical Database.**
 - **Description:** A key issue in designing a focused Web crawler is how to determine whether an unvisited URL is relevant to the search topic. Effective relevance prediction can help avoid downloading and visiting many irrelevant pages. To improve relevance prediction, we use word sense as the base prediction model, which however can be easily be implemented using word-sense disambiguation and semantic lexical database such as WordNet, ConceptNet, YAGO, etc.
 - **Technology used:** Java.

6.ACADEMIC DETAILS

- **Master's Degree in Computer Science and Engineering, Summer 2014,** *Rashtrasant Tukadoji Maharaj Nagpur University*
 - **University Gold Medalist in All Branches of M.Tech with an aggregate of 86.05%.**
 - **University Gold Medalist in M.Tech, Computer Science and Engineering Specialization.**
 - **First University Ranker in second year, secured 93.80%** for the Project- Design and Implementation of Focused web Crawler using Semantic Lexical Database
 - **First University Ranker in all Semesters.**
- **Bachelor's Degree in Information Technology, Summer 2012,** *Rashtrasant Tukadoji Maharaj Nagpur University*
 - **Fourth University Ranker** in Bachelor's Degree-Information Technology with an aggregate of 77.54%
 - **Second University Ranker** and First in College in Seventh and Eighth Semester with 78.00% and 80.54% respectively
 - **First University Ranker** in Fifth and Sixth Semester with 77.85% and 74.00% respectively.
 - **Fourth University Ranker** in Third and Fourth Semester, First in College with 76.75% and 75.62% respectively.
 - **Third University Ranker** in First Year.

7. ADMINISTRATION/ADMINISTRATIVE AND LEADERSHIP RESPONSIBILITIES

- Core committee member of Admission as Database In charge for session 2016-17, RGCER;
Function Details: Maintenance and analysis of database, communicating via mail and messages. IVRS Call Attendee.
- Core committee Member of Admission and Branding Cell for Session 2015-16, RGCER;
Function Details: Handling Admission Process, Generation of Database and counseling of probable Students, Arranging Seminars/ doubt clearing Session for probable students and their parents. IVRS Call Attendee.
- Committee Member of Admission and Branding Cell for Session 2014-15, RGCER;
Function Details: Handling Admission Process and counseling of probable Students
- Co-Ordinator of NBA team at organizational level
Function Details: Handling, organizing, representing, collecting cross team data for NBA Accreditation of RGCER. Lead the team to co-ordinate proper representation and documentation of data collected.

8. OUTREACH ACTIVITIES

- Enthusiast for Short Term Training Programs on Cloud Computing & Network Security, Cloud Computing and Virtualization, and Advances in Engineering Education at prestigious institutions in Nagpur.
- Engaged in a Wireless Sensor Network workshop and NS-2 introduction, showcasing practical skills
- Participated in an international conference, presenting a paper on web crawling algorithms, later published in a recognized computing journal.
- Achieved first rank for the paper "Design and Implementation of Focused Web Crawler" at the MGI PG Conference.
- Led the Accounts Section for the "National Conference On Information Technology And Telecommunication" in 2010 at Nagar Yuwak Shikshan Santha College of Engineering and Research.
- Participated in "Rashtriya Urja Jana Jagriti Abhiyan", the First Indian International Energy Summit organized by "The Institute of Engineers India, Nagpur" in the year 2011

9. HOBBIES

- Research and Writing
- Fine Art Connoisseur
- Social Work

10. PERSONAL DETAILS

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| • Father's Name: Dr. Rupchand G. Janbandhu | • Gender: Female |
| • Mother's Name: Mrs. Alka R. Janbandhu | • Nationality: Indian |
| • Date of Birth: 10 June 1990 | • Languages known: Hindi, English, Marathi |

(Miss. Rashmi R. Janbandhu)