Md Abu Nayeb Towki

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Recent Computer Science graduate from Brunel University London with a strong foundation in AI, machine learning, and software development. Skilled in Python, TensorFlow, and full-stack web technologies with hands-on experience building responsive applications and intelligent systems. Passionate about solving real-world problems through data-driven solutions and committed to continuous learning. Actively seeking a graduate AI Engineer or Software Developer role where I can apply my technical skills to real-world challenges and grow within an innovative tech team.

Core Skills

- **Programming & Development:** Python, Java, JavaScript, HTML, CSS, React.js, Node.js, Express.js
- **AI & Data Science:** TensorFlow, Scikit-learn, NLTK, Pandas, NumPy, Matplotlib, Seaborn, SPSS
- **Database Management:** MySQL, MongoDB (relational & NoSQL database design and queries)
- **Software Engineering Tools:** Git, GitHub, VS Code, Eclipse, Agile (Scrum), JIRA, Trello
- **UI/UX & Design:** Figma, Bootstrap – responsive and accessible user interfaces

Projects

Machine Learning Approaches to Distinguish Between Human and AI Text
Python, Pandas, Scikit-learn, NLTK
- Developed and evaluated machine learning models (Logistic Regression, Neural Networks)
- Applied NLP techniques: tokenisation, TF-IDF, stop-word removal, and feature scaling
- Achieved 70% accuracy on test data for AI text classification
- Collaborated in an Agile methodology using sprints and retrospectives

Currency Converter using API (Personal Project)
Python, Requests, REST API
- Built a simple Python script to convert currency using real-time exchange rates from a public API
- Handled API integration, user input, and JSON parsing for accurate conversion results
- Practised clean code structure, input validation, and real-world scripting logic
- Demonstrated understanding of how external APIs interact with software applications

HeaLife Website (Academic Project)
React.js, Node.js, Express.js, MySQL, Bootstrap
- Developed a responsive frontend using React and Bootstrap, improving mobile usability by 40%
- Built REST APIs using Express and Node.js for user data and health tips
- Implemented secure user authentication and content storage with MySQL

Advanced Word Count With GUI (Academic Project)
JAVA Swing and Eclipse
- Designed a desktop application to analyse large text files for word frequency and statistics
- Showcased Java Swing UI skills and implemented custom data structures for parsing

Scientific Calculator With GUI (Academic Project)
JAVA Swing and Eclipse
- Created a user-friendly scientific calculator supporting complex expressions
- Demonstrated understanding of OOP, event-driven programming, and GUI layouts

Education

BSc. Honours Computer Science
Brunel University London | Sep 2020 - Jul 2024
Final Year Focus: AI, Web Development, and Software Engineering
Key Modules: Software Development & Management, Cybersecurity, Algorithms & Applications, Data Analysis

HSC Equivalent to A-Levels (Science)
Ideal College Dhanmondi, Dhaka, Bangladesh | GPA 3.25/5 | Jul 2016 - Jun 2018

SSC Equivalent to O-Levels (Science)
Armanitola Govt High School, Dhaka, Bangladesh | GPA 4.61/5 | Jul 2014 - May 2016

Work Experience

Barista Maestro (Team Leader)
Costa Coffee, London | May 2023 - Present
- Led daily store operations and closing shifts to meet business and safety targets
- Trained and supervised 5+ new baristas, ensuring high performance and adherence to brand standards
- Maintained 95% customer satisfaction through excellent service and problem resolution
- Managed inventory and reduced waste by analysing weekly consumption patterns

Volunteering
IEEE Computer Society ULAB, Dhaka, Bangladesh
Graphic Designer | Jan 2020 - Sept 2020
- Created posters and banners for the Publication Team using Adobe Illustrator
- Won a logo contest organised by IEEE ULAB SB WIE Affinity, demonstrating my ability to think innovatively when producing ideas.
- Managed my time effectively, completing tasks allocated to me by the set deadline

Professional Development

- IBM AI Engineering Professional Certificate (In Progress)-
  Learning machine learning, deep learning, and AI pipeline deployment with TensorFlow and PyTorch.
- Completed: Supervised Machine Learning – Stanford (Coursera)-
  Covered regression, classification, loss functions, model training, and Python implementation.
- Currently Learning:
  - Deep Learning Specialisation – Andrew Ng (Coursera)
  - System Design for Developers – LinkedIn Learning
  - AWS Cloud Practitioner Fundamentals – Amazon

Interests
Deeply passionate about artificial intelligence and software engineering. Regularly pursue online courses and personal projects to enhance my skills in machine learning, backend systems, and scalable web apps. I also enjoy playing badminton, going on long drives, and capturing creative photography in my spare time.