Ankush Deshmukh

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GitHub | LinkedIn | CodeForces | CodeChef

EDUCATION

IIT JODHPUR
BTech in Computer Science and Engineering
Jodhpur, India
2021 - 2025 | CGPA : 6.90 / 10.0

VIDYADHAM JR. COLLEGE
Intermediate
Aurangabad, India
2018 - 2020 | Percentage : 68%

SB HIGH SCHOOL
Matriculation
Aurangabad, India
2018 | Percentage : 93%

COURSEWORK

UNDERGRADUATE
Data Structures and Algorithms
Design and Analysis of Algorithms
Computer Networks
Pattern Recognition and Machine Learning
Operating Systesms
Software Engineering
Cryptography
Database Systems
Computer Architecture

SKILLS

TECHNICAL
Programming Languages
• C • C++ • Python
Web Development
• Django • Flask • PostgreSQL
• HTML • CSS • Javascript
Software Development
• PyQT5
Other
• Raspberry Pi • Arduino • Unity
• Omnet++ • GitHub • MatLab
• Assembly (RISC V)

CO-CURRICULAR

• Head of Entrepreneurship Cell, IIT Jodhpur Web Development Team - Led Web Development Team in the design and development of a new website for E-Cell.
• Core member of DevlUp Labs (IITJ open source community) and InSiDe (IITJ game development society).

PROJECTS

TRIP INDIA | Course Project
2021 | GitHub
• Developed a user-friendly web application to optimize tourist trip planning using Python Flask framework and PostgreSQL as a database.
• Leveraged algorithms to generate personalized itineraries based on budget, time, and preferences, maximizing efficiency and minimizing travel time.
• Integrated informative web pages featuring tourist attractions with images and details, categorized for easy navigation. Empowered admin users to dynamically add web pages to the website by providing page data and uploading images.

YOUTUBE COMMENTS SPAM CLASSIFIER | Team Project
Feb 2023 | GitHub | Detailed Report
• Trained an unsupervised machine learning model to classify YouTube comments as spam or not spam.
• Applied outlier detection techniques (OneClassSVM, LocalOutlierFactor) to identify irrelevant comments typical of spam.
• Optimized performance through ensemble methods and dimensionality reduction (Tf-idf Vectorization, Truncated SVD).

CODE RUNTIME FLOW VISUALIZER | Personal Project
May 2023 | GitHub
• Built a basic python debugger to enhance code comprehension.
• Enabled step-by-step code execution with real-time visualization of program state and outputs. Integrated a input window to provide inputs to the program.
• Tech Stack: Django (backend), JavaScript (frontend), Python (pdb module)

P2P GOSSIP NETWORK PROTOCOL | Course Project
Feb 2024 | GitHub | Detailed Report
• Implemented a scalable gossip network protocol for efficient message broadcasting and ensuring network liveness (active nodes).
• Used socket programming with Python's select module and timer functions for multiple concurrent connections, avoiding multithreading for large-scale deployments.

ACHIEVEMENTS

Competative Programming
• Achieved **5 star** rating with a current rating of **2013** on Codechef.
• Attained the title of **Expert** with a peak rating of **1698** on Codeforces.
• Finished **22nd** globally (**13th** in India) in Starters 143 Div-2 among **1800+** participants.
• Finished **43rd** globally in March Long Two-2022 Div-3 among **3600+** participants.
• Ranked **51st** globally in Starters 141 Div-2 among **2300+** participants.
• Ranked **278th** globally (**23rd** in India) in Educational Codeforces Round 167 Div-2 among **16000+** participants.

Software Development and Academic
• **1st Place Winner** among **90+** participating teams - Web Development Hackathon - Prometeo IITJ 2022 (Largest Technical Fest in North-West India). Developed a winning responsive web chat application with secure, database-backed messaging.
• **AIR-5153** - JEE MAINS 2021 among approx **1.1 million** candidates and **AIR-3356** - JEE ADVANCED 2021 - among approx **141 thousand** candidates.