Manohar Koya

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EDUCATION

BML MUNJAL UNIVERSITY
B.Tech in Computer Science
Aug 2017 - 2021 | Gurgano, India
School of Engineering and Technology
Bachelor of Technology
Cum. GPA: 8.21 / 10.0
Major GPA: 8.85 / 10.0

SRI CHAITANYA JR. COLLEGE
+12. May 2017 | Hyderabad, India

LINKS

Github:// **Manohar Koya**
LinkedIn:// **Manohar Koya**
Codechef:// **manohar9669**
Codeforces:// **ManoharKoya**

COURSEWORK

UNDERGRADUATE
Object Oriented Programming + Java
Database Management Systems
Data Structures and Algorithms
Design and Analysis of Algorithms
(Club Teaching Asst. for Juniors)
Operating Systems
Theory of Computation
Computer Networks
Computer Organisation and Architecture
Information Retrieval
Cryptography
Artificial Intelligence
Machine Learning
Software Engineering
Compiler Design

SKILLS

PROGRAMMING
Experienced :
C++ • C • Python • Android • Java
over 1000 lines :
CSS • HTML • Batch
Familiar:
Shell • Flutter • JavaScript

HOBBIES

- Competitive Programming
- Ping Pong (*Beginner*)

EXPERIENCE

CYBERAEGIS | Android Developer Intern
May 2019 – July 2019 | Hyderabad, India
- Developed Front-end for Android application of Cyberaegis institute.
- Led a team of 5 fellow android developers in project involved.
- Front-End developer - Wrote and reviewed code in Java, Styled the complete application interface.

PROJECTS

AUTO-PATH | Snake game Automation
Apr 2020 – May 2020 | Machine Learning
- Learnt and Used Genetic Algorithm for Implementation.
- Feed forward Artificial Neural Network is used as snake brain.
- Applied different combinations of Crossover-Mutation Methods for Statistical analysis of Genetic Algorithm.
- Observed a 25.6% score advantage with respect to time and 43.4% time advantage with respect to constant score while using Weight-Neuron as Crossover-Mutation pair.

ANTON | Tweet Trent Analyzer
Dec 2019 | Information Retrieval
- Twitter Bot for Trend analysis, Topic suggestion, Hashtag Trend locator.
- Implemented on call/tag identification, trend analysis based on rate of increase in likes and retweets wrt time using Twitter python api.
- 78% accurate subject identification with hashtag matching.

DRONE-PATH | Drone Scheduling Algorithm
Feb 2020 | Algorithm Development
- Developed Drone Scheduling Algorithms for an NP-Hard problem.
- Idea implementation of Greedy & Clustering based Algorithms based on Fuel locations along with ANN for algorithm selection.
- Initial 10^6 tests were performed on both algorithms while simultaneously training the ANN. Rest were done on ANN output.
- Observed an 89% accuracy on algorithm selection (ANN).

STEGANOGRAPHY | Research Review
May 2020 | Cryptography
- Studied Least significant bit & Jsteg Steganographies.
- Implemented LSB with last 2 bits of pixels & Jsteg with last 1 bit of Cosine coefficients for each 8X8 blocks of the image.
- Compared ease of visual attack over LSB images in both methods. Analyzed and reviewed histogram drawbacks and cover-up methods in naive Jsteg Steganography.

AWARDS

2020	Nationals	Smart India Hackathon (SIH-2020) National Finalist.
2020	2nd/40	Intra-Campus Hackathon, BMU
2017	75%	Scholarship awarded for B.Tech in BMU