Bilwasiva Basu Mallick

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SUMMER INTERNSHIP

CISCO
Software Development Engineering
May 2020 - Jun 2020
- Building a Predictive Algorithm based 'on-the-fly' Anomaly Detection scheme for improving Fault Tolerance in CISCO's Smart Core Access Router Box.
- Developed an intelligent & lightweight algo capable of Health Monitoring with 98% performance metric.
- System guarantees high Quality of Service for end user.

INDIAN STATISTICAL INSTITUTE
Summer Research Intern
May 2018 – July 2018 |
- Artificial Intelligence Based Pattern Recognition system using Support Vector Machine for Imbalance detection.
- Improved accuracy of the robust classifier model to 92% with Gaussian Kernel based MCM & LDA algorithms.

EDUCATION

BITS PILANI | M.E. in Computer Science
Aug 2019 - May 2021 | CGPA: 8.01 | Dept. Rank- 5th
BITS PILANI | B.E. in Electrical Electronics
Aug 2015 - July 2019
CGPA: 8.3 •Dept. Rank- Within Top 20% of 200 students.

RAMAKRISHNA MISSION VIDYALAYA,
NARENDRAPUR | Apr 2007 - May 2015
12th Boards: 496/500, 99.2%, May 2015
•1st Position out of 1 million students
10th Boards: 677/700, 96.71%, May 2013
•4th Position out of 1.2 million students

ACHIEVEMENTS

•Consolation Prize in Microsoft CodeFunDo'19.
• State Topper of All India Essay Competition'17.
• Mamraj Agarwal Rashtriya Purashkar- State Governor,for Board Ranks-1 & 4, 2015 & 2013.
• Swami Vivekananda-Lokeshwarananda Memorial Award for Best Student, 2015 & 2013.
• State Winner of AIMT'14 Vedic Maths Contest.
• Top 1% in National level Olympiads- INAO'13, INPhO'14, INChO'14 • Center Topper in RMO'13.

TECHNICAL PROFICIENCY

Data Science • Python • Machine Learning • TensorFlow • Big Data Analytics • Deep Learning • R • Scikit-learn • Keras • NLP • PyTorch • Numpy • Pandas • OpenCV C++ • Java • JavaScript • Ruby • Go • OOPS • SQL • Kotlin • AWS • Hadoop • Apache Spark • DevOps • Linux • Google Cloud Platform • Azure • Matlab • C • React Native • Docker • Kubernetes • Computer Vision

BACHELOR'S THESIS DISSERTATION

BRAIN COMPUTER INTERFACE CONTROLLED NAO HUMANOID | Jan 2019 – May 2019
Received BITS MCN Scholarship for perfect CG &, as a mark of Accomplishment & Innovation
- Built a fully functional working prototype for Interaction of neural impulses with a robot.
- Designed a Machine Learning algorithm to extract a target stimulus from EEG-based BCI kit, meant to be fed into Choregraphe, a real-time simulation framework, compatible with inbuilt S/W NAOqi.

PROFESSIONAL EXPERIENCE

TEACHING ASSISTANT[UGC GATE & BITS CS]
- Conducted labs for 400+ UG students, Evaluated answer scripts, Framed Online coding questions.

TA Courses: SOFTWARE TESTING METHODS, OBJECT ORIENTED ANALYSIS & DESIGN, DATA MINING, COMPUTER PROGRAMMING, MICROPROCESSOR.

ACADEMIC PROJECTS

ADVANCED DATA MINING | Jan 2020 – Apr 2020
Univariate Time Series Forecasting & its Parallelization using Map Reduce distribution

- Used Spark & Hadoop platforms to implement Pattern Sequence Forecasting[PSF] & Expectation–Maximization[EM] Algorithms on data.

COMPUTER NETWORKS | Feb 2020 – May 2020
Transport Layer Level Design & Synchronization
- Implemented Selective Repeat Protocol based Client-Server & TCP based Multi-client channel.

NETWORK SECURITY | Jan 2020 – Apr 2020
Best Practices of Energy Efficient Cryptography Algorithms in WIRELESS SENSOR NETWORK
- Coded Symmetric key Crypto techniques to encrypt messages & enhance the level of Cyber-Security.

POSITION OF RESPONSIBILITY

EDUCATIONAL METAMORPHISM
In this NGO startup, I developed questions & study materials for needy students across India.

SOFT SKILLS & INTERESTS

Leadership • Public Speaking • Teamwork • Business & Product Management • Creative Writing • Cricket • Quizzing • Synthesizer • Gardening • Photography • TT