

Anil Yadav

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EDUCATION

Coppin State University , Expected May 2019 Bachelor of Science degree in Computer Science (Honors)	Baltimore, MD Cum. G.P.A: 3.98/4.0
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National Infotech Higher Secondary School , May 2013 High School Diploma (Computer Science Emphasis)	Birgunj, Nepal GPA: 4.0/4.0
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EXPERIENCE

Summer Undergraduate Research Program in Imaging Informatics (Machine Learning)	Summer 2017 LA, California
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Department of Radiological Sciences, University of California, LA

Principal Investigator: William Hsu, PhD

- Built a Deep Learning model to detect cancerous lung nodules in 3D computed tomography scan of the lungs. Implemented a Convolutional Neural Network (CNN) to construct the model framework. Worked on image segmentation algorithms for preprocessing large volumes of CT data.

Undergraduate Research Experience NASA Swarmathon, Coppin State University	Spring 2017 Baltimore, MD
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- Participated in the 2017 NASA Swarmathon virtual competition. Looked at various search algorithms and ROS libraries. Formulated different implementation strategies for the rovers to achieve the competition goal.

Lab Technician Client Computing Services (CCS), Coppin State University	Spring 2016 – Present Baltimore, MD
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- Acquired skills in deploying and maintaining information technology systems and related services using professional concepts. Experience in working at the IT help desk to provide assistant to students facing any technical difficulties.

Mathematics Tutor Coppin Academy	Spring 2016 Baltimore, MD
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- Served as a Mathematics Tutor at Coppin Academy, helping students with various mathematical concepts and preparing them for standardized tests.

Research Intern Center for Nanotechnology, Coppin State University	Fall 2015 Baltimore, MD
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- Conducted different simulations using PC1D to increase the efficiency of multi-junction solar cells. Worked on design and optimization of **Dye Sensitized Solar Cells (DSSCs)**. Also, collaborated on building a solar powered train (presented at the 3rd Science Symposium at Coppin State).

Hackathons Involvement

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| Data Scientist (Machine Learning) | October 7-8, 2017 |
| HackUMBC, University of Maryland Baltimore County | Baltimore County, MD |
| <ul style="list-style-type: none">Built a Kernel Support Vector Machine (SVM) model (supervised) for breast cancer prediction. Used Principal Component Analysis (technique for dimensionality reduction) to find variance in the training set. Dataset accessed from UCI Machine Learning Repository. | |
| Data Scientist (Machine Learning) | September 30, 2017 |
| Society of Advancement of Computer Science, Morgan State University | Baltimore, MD |
| <ul style="list-style-type: none">Constructed a Multi-Layer Perceptron Neural Network to detect malignant tumors in patients. The model was trained and tested on the University of Wisconsin's dataset. | |
| Lead Developer | Fall 2016 |
| KP Social Innovation Challenge, Coppin State University | Baltimore, MD |
| <ul style="list-style-type: none">Built a Java application prototype that would keep track of medical history and symptoms of a patient (Hackathon sponsored by Kaiser Permanente). | |

SELECTED POSTER PRESENTATION

- Summer Undergraduate Research Program, UCLA Department of Radiological Sciences
David Geffen School of Medicine, MII RISE & UC-HBCU
University of California, Los Angeles, CA, August 18, 2017
- Detecting Pulmonary Nodules in 3D Computed Tomography Scans using Deep Learning.**
- Annual Biomedical Research Conference for Minority Students
Phoenix Convention Center, Phoenix, Arizona, November 3, 2017
- Detecting Pulmonary Nodules in 3D Computed Tomography Scans using Deep Learning.**

ACHIEVEMENTS/AWARDS & LEADERSHIP ACTIVITIES:

- Golden-Eagle Four Year **Full Ride Honors Scholarship** (2015-2019).
- Dean's List** distinguished scholar (Every Semester).
- Recipient of the prestigious "**Certificate of Excellence for Excellence in Research as an Honors Program Scholar**" (2017).
- Recipient of the "**Most Outstanding Mentee**" award by the **Our House Mentoring Community**.

SKILLS:

Laboratory skills and experience:

- Solution chemistry (molarities, calculations, and pH measurements).
- Light and fluorescent microscopy.

Computer/Technical:

- Operating Systems: Microsoft Windows, Linux (Ubuntu), Unix, Mac OS.
- Application Tools: MS office (Word, PowerPoint, Excel), Adobe Photoshop and XD, Dreamweaver.
- Programming Languages: Java, Python, C, C++, HTML, CSS, Visual Basics.
- Machine/Deep Learning & Data Mining: Regression models, Classification Algorithms, Data Clustering, Convolution Neural Network (CNN) etc.

Languages: Fluent in English, Hindi, Nepali, Bhojpuri, and Elementary Latin.