

Abhishek SHARMA

PERSONAL DATA

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RESEARCH PAPER

<p><i>Aug 2017</i> Second Author Irish Machine Vision and Image Processing</p>	<p>Automatic Tracking System for Event Detection and Classification in Tennis The paper manages to merge computer vision concepts with domain knowledge in tennis. It has three modules:</p> <ul style="list-style-type: none">• Defining a computable grammar for a tennis match.• Using computer vision to extract features from the video, and map them to attributes of the grammar previously defined.• Feeding the above obtained data to a machine learning model, for classification purposes.
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WORK EXPERIENCE

<p><i>May-July 2018</i></p>	<p>Software development intern at Amazon India Worked with Identity Services Team helping with design and implementation of a generic cache library that would be used by various teams throughout Amazon.</p>
<p><i>March-April 2018</i></p>	<p>Teaching Assistant for Formal Methods Worked as teaching assistant for UG course Formal Methods that involves introduction to Automata theory.</p>
<p><i>Aug-Nov 2016</i> Cyber Security Startup</p>	<p>Software Developer at Authbase.net Involved installation and management of various tools, needed for website scanning purposes along. Also had to automate several tools by linking their results, for least manual intervention during scanning.</p>

EDUCATION

<p>MAY 2012</p>	<p>Higher Education - St. Ann's Convent School, Lucknow ICSE Board</p>
<p>MAY 2014</p>	<p>Senior Education - Lucknow Public School, Lucknow CBSE Board</p>
<p>JULY 2019 (Expected)</p>	<p>Undergraduate, B. Tech. in Computer Science International Institute of Information Technology, Hyderabad</p>

COMPUTER SKILLS

Basic Knowledge: JAVA, OPENGL
Intermediate Knowledge: C, C++, MYSQL, LINUX

COURSES

DATA STRUCTURES AND ALGORITHMS	OPERATING SYSTEMS
COMPUTER SYSTEM ORGANISATION	SOFTWARE DESIGN
COMPUTER GRAPHICS	COMPUTER NETWORKS
ARTIFICIAL INTELLIGENCE	DATABASE SYSTEMS
DATA WAREHOUSING AND DATA MINING	STATISTICAL METHODS IN AI
COMPILERS*	PRINCIPLES OF PROGRAMMING LANGUAGES*

PROJECTS

NOVEMBER 2018	Chord Protocol	Distributed Systems
	Implemented chord distributed hash table protocol used for fast lookup of nodes associated with information.	
OCTOBER 2017	Adversarial Association Rule Mining*	DATA MINING
	We try to simulate how opponents in business market can exploit association rule mining to their benefit by introducing false trends to direct the market in their favour.	
SEPTEMBER 2017	Two Phase Merge Sort Algorithm	Database Systems
	Written in C++, the code enables user to sort very large multi-column csv file(over 1 GB). Consisting of two phases, it sorts the file into chunks based on available memory and then merges them into one file which contains all sorted entries.	
AUGUST 2017	Mini SQL Engine	Database Systems
	A mini SQL Engine with Parser, both written in Python, that can parse and operate simple sql queries like SELECT, FROM, WHERE with support for aggregate functions like sum, avg along with join statements.	
APRIL 2017	Distance Vector Routing Protocol	Computer Networks
	The project involved simulation of a computer network which supports distance vector routing using UDP sockets, done in Python. The routing algorithm computes the routing table using Bellman Ford Algorithm, to carry out real time updates to the table based on network changes.	
MARCH 2017	File Sharing Protocol	Computer Networks
	A file system protocol that auto syncs two directories on same or different computers, looking out for any changes in files. It supports file transfer over TCP or UDP protocols along with checksum to verify the contents of the file transferred.	
JANUARY 2017	Ultimate 4by4 Tic Tac Toe Bot	Artificial Intelligence
	A bot that plays ultimate tic tac toe, made using minimax search and alpha beta pruning. Heuristic was developed that analysis board position by measuring and allocating dynamic weights to each cell on the board according to game situation.	
OCTOBER 2016	Mini Shell	Operating Systems
	A mini shell written in C that supports basic terminal commands like ls, echo, cd through fork and exec. Also supports background processes and signal handling.	

ACHIEVEMENTS

- Mentor for First year students, batch 2017.
- Dean's Merit List, Monsoon 2015.