TAPESH MANDAL

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Blog - https://tman258blog.wordpress.com/
Github- https://github.com/mandaltapesh

Age: 26 Years, Passport No. K 1744757, Languages known: English, Hindi, Bengali.

Academic Qualification:

Name of Examination/Board	Name of Institution	Score	Year of Passing
M.Tech (Advanced Networks)	ABV Indian Institute of Information Technology & Management (IIITM), Gwalior	CGPA – 7.47	2017
B.Tech. (Electrical & Electronics Engg.)	National Institute of Technology (Mizoram)	CGPA -7.00	2014
All India Senior School Certificate Examination [CBSE]	Centre Point School, Nagpur	82%	2009
Secondary School Examination [CBSE]	Centre Point School, Nagpur	87 %	2007

Open Source Experience:

Project: mozilla_ci_tools, Organization: Mozilla
- Fixed 5 bugs. Largest patch 262 lines.
- Wrote unittests in python.
- Enabled linting for python using flake8.
- Dealt with issues involving traceback due to keyboard interrupt.
- Wrote code to schedule automation jobs in python.

Project: Treeherder, Organization: Mozilla
Contributed to the front-end (dashboard) of the project with code in javascript. Fixed 4 bugs.

Project: SuperTux, Organization: SuperTux.org
I wrote two unittests using Google Test Framework in C++ for SuperTux.org

Research Projects:

M.Tech. dissertation: "Graph kernels in machine learning"
- Proposed **algorithms** to estimate optimum size of a random sample of graphlets for graphlet kernels.
- Proposed improvement in approximation of heat flow expression for heat kernels used in community detection.
- All the experiments were implemented in **python 2.7.6** using **igraph library** on **Ubuntu 14.04 LTS**.

B.Tech. Final Year Project:
Maximum Power Point Tracking of Solar Cells & Inverter design using **MATLAB.**

Training Projects:
- Development of a library management system using PHP
- Development of a geo-location app using json parser in PHP

Journal Publications:
1. Mandal, T., & Godfrey, W. W. (2017). A strategy for random sampling of sub-graphs used in graphlet kernels. *Journal of Institution of Engineers (Springer)*[under review]

2. Mandal, T., & Godfrey, W. W. (2017). Heat Kernel approximation using N-degree Taylor polynomial used in community detection. *International Journal of Network Science (Inderscience)* [under review]

Workbench:
Ubuntu 14.04 LTS, IDLE for python, Eclipse for java and Firefox web developer tools.

Languages and Technologies:

Technical Proficiency:
1. Working knowledge of Github and git
2. Usage of tools like JSLint, grep ,flake, tox etc.
3. Basic usage of scipy modules.
4. Ability to quickly learn technologies e.g. modules or frameworks.
5. Experience of contribution to open source.

Programming Languages:

Python, Javascript, C++, C, HTML, CSS, Java, PHP

Address for communication:
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